



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

LANE MEDICAL LIBRARY STANFORD



2 45 0417 5347

THE

LIBRARY

OF



1914

THE LIBRARY OF THE
UNIVERSITY OF CHICAGO

NINETEENTH ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN,

FOR THE YEAR 1886.

LANE LIBRARY

SECRETARY OF STATE,

OF THE

STATE OF MICHIGAN.



BY AUTHORITY.

LANSING:
THORP & GODFREY, STATE PRINTERS AND BINDERS,
1887.

YSA9811 39A1

CONTENTS.

BIRTHS, MARRIAGES AND DEATHS.

	PAGE.
In Michigan for 1885 and Comparisons with other Years.....	1
Statement of 1882-5, and Average 1875-1884.....	1
Natural Increase of Population.....	1
Population 1880-1885, Actual and Estimated.....	2
Various Statements Concerning, for 1881-5.....	3
For Nineteen Years, with Excess of Births over Deaths.....	4
For 1885 by Quarter, Month, etc., Returned and as Corrected.....	4
Births and Deaths, with Excess, by Months, 1880-5.....	5
With Population and Excess, by Counties and Sex.....	6-9

BIRTHS.

Returned for Michigan for 1885.....	10
Population Represented by and Relation to.....	10
Comparison of Census and Registration Returns.....	10
Per Cent Returned and Added, 1876-1885.....	11
Per Cent of to Inhabitants.....	11
Average by Quarter, Month, etc., Returned and as Corrected.....	11
By Months, for Certain Years, Returned and as Corrected.....	12
By Months in Order of Number, 1883-5, and Ten Years.....	13
The same as Corrected for Omissions.....	14
By Sex and Months, 1885, for the State and Counties.....	15-22
Per Thousand Inhabitants by Color.....	23
By Color and Sex as Related to Population.....	24
Relation by Sex to Population, for State and Counties.....	25-32
Nativity of Parents, 1885.....	33
Nativity of Parents, 1883-5, Average for Ten Years.....	34
Nativity of Parents 1885, by Counties and Sex.....	35-42
Twin Children, 1885.....	43
Nativity of parents of Twins, 1885.....	44
Nativity and Color of Mothers of Twins, 1883-5 and Ten Years.....	45
Triplets 1885, with Nativity of Parents.....	46
Plural Births, Fourteen Years, Ratio to all Births.....	46
Nativity of Parents of Plurals, Fourteen Years.....	47
Still-Births.....	47

	PAGE.
Relation of Still-Births and Mothers to all Births and Mothers.....	48
Nativity and Color of Mothers of Still-Births.....	49
Nativity of Parents, by Sex, etc., and by Months.....	50-51
All Births, Proportion of Males to Females, Twelve Years.....	52
Illegitimates, Various Tables and Comparisons.....	52-56
Twins, Illegitimates and Still-Births, by Counties.....	57-58
Townships reporting "No Births".....	58
Townships from which no Returns were Received.....	59

MARRIAGES.

In Michigan for 1885, with Marriage Rate, etc.....	60
Average by Quarter, Month, Week and Day.....	60
By Quarters, 1882-5, and Ten Years, Returned and Corrected.....	61
Order by Months 1883-5, and Average Ten Years.....	62
By Counties and by Months for 1885.....	63-65
By Color and Sex with Relation to Population.....	65-66
By Color and by Counties.....	67-69
By Nativity, Various Tables and Comparisons.....	69-72
Ages of Persons Married, Per Cent, by Sex, etc.....	73-74
Marriages of Persons under 21; Extreme Youth, etc.....	75
Nativity and Age in Periods and by Counties.....	76-83
Manner of Union by Ages.....	84
Marriages as Returned, 1883-5, Additions for 1883-4, and Relation to Population, by Counties.....	85-87

DEATHS.

In Michigan for 1885 and Observations.....	88
Comparison of Census and Registration Returns.....	89
Corrected for Omissions, with Relation to Population.....	89
Average per Quarter, Month, Week and Day.....	89
By Seasons, 1883-5, Average Ten Years.....	90
For the same Period, Months by Number of Deaths.....	91
Fourteen Years by Sex, with Relation of the Sexes.....	92
Months by Number, as Corrected, 1883-5, and Ten Years.....	93
Number of Each Sex by Periods of Age.....	93-94
Twelve Years by Certain Periods of Age.....	95
By Months and Certain Ages, 1885.....	95-96
By Sex, Months and Periods of Age, 1885.....	97-99
The Same by Months and Years of Age.....	100-109
Infant Mortality.....	110
Children under One Year of Age, Diagramatic Tables.....	111-113
Relation of Infant Deaths to Births.....	114
Names, etc., of Persons who Died Aged 100 and over.....	115
Townships which made no Returns of Deaths.....	116-117
Townships which Reported "No Deaths".....	118-119
By Counties, by Sex, the Months and Periods of Ages.....	120-131
By Color, Proportion of and Relation to Inhabitants.....	132
By Color and Sex for the State and Counties.....	133-135
The Nativity of Decedents for 1885.....	136
Nativity, Sex and Periods of Age, Relation of to Population.....	137
Nativity and Sex for State and Counties.....	138-140

CONTENTS.

v

CAUSES OF DEATH.

	Page.
Observations on.....	141
By Classes, 1883-5, Average Ten Years.....	142
By Classes and by Months for 1885.....	142
From Seven Prominent Zymotic Diseases, Twelve Years.....	143
From Six Principal Local Diseases, Twelve Years.....	143
From Six Chief Developmental Diseases, Twelve Years.....	144
From Eight Prominent Violent Causes, Twelve Years.....	144
From Brain Disorders, Specified and Otherwise.....	145
The Order of Seven Groups of Causes, by Number.....	145
Eleven Geographical Divisions of the State.....	146
Deaths by Classes and Geographical Divisions.....	147
Nosology, by Counties, Classes and Orders of Diseases.....	148-177
Specified Causes, by Years, Months, Sex and Periods of Age.....	178-213
By Casualties, specified.....	214
Suicide, Details of, Remarks, etc.....	215-218
Fifteen Principal Causes of.....	218-219
Ten Specified Causes, Number and Per Cent of.....	219-221
From Cancer.....	222
Influence of Meteorological Conditions upon.....	223-224
From Croup, by Months, with coincident Meteorological Conditions.....	225
From Diphtheria, in State and Geographical Divisions.....	226
From Diphtheria, by Months, with coincident Meteorological Conditions.....	227
From Typhoid Fever, by Months, with coincident Meteorological Conditions.....	228
From Diarrheal Diseases.....	229
From Diarrhea, by Months, with coincident Meteorological Conditions.....	230
From Scarlet Fever, by Months, with coincident Meteorological Conditions.....	231
From Consumption, by Months and Quarters.....	232
From Consumption, by Months, Sex, and Periods of Age.....	233
From Consumption, by Months, with coincident Meteorological Conditions.....	234
From Pneumonia.....	234-235
From Pneumonia, by Months, with coincident Meteorological Conditions.....	236
From Consumption, Pneumonia, Typhoid Fever, Scarlet Fever and Diarrhea, by Geographical Divisions.....	237
From Old Age, those aged 70 and over, and those under 5.....	238
By Sex, with Average Age of Decedents.....	239
Longevity in Certain Specified Occupations.....	240
Of Persons aged 20 and over, by Occupations, with Aggregate and Average ages of Decedents.....	241-248

STATE OF MICHIGAN.

DEPARTMENT OF STATE, }
OFFICE OF THE SECRETARY, }
July 8, 1887.

HON. CYRUS G. LUCE, *Governor of Michigan* :

SIR,—In accordance with the requirements of the law of this State, I have the honor to submit herewith the Nineteenth Annual Report relating to Births, Marriages and Deaths, returned for the year ending December 31, 1885.

— The main features of the present report are essentially the same as in that of 1884, with such few changes as seemed desirable to add to the interest and statistical value of the work done. The time elapsed from the census of 1884 was comparatively so brief that most comparisons and observations have been based upon the results of that census. In some cases an estimate of population has been made, based upon the average annual rate of increase from 1880 to 1884.

It is gratifying to note a large reduction in the number of deaths reported for 1885 from the year previous, there being a difference of 1,410 deaths, or nearly eight per cent reduction from 1884. With this decrease in the number of deaths there comes an increase of 1,711 births, or over four per cent more than in 1884. There is no practical difference in the number of marriages reported for 1885 as compared with the previous year.

Great care has been bestowed upon the tables and material embodied in this report, the work has been carefully verified at every stage, and it is believed to be thoroughly accurate, without which assurance little value could be placed upon such a report. It is also believed that every deduction or proposition has been made and placed on record in such a manner as to be of interest to the present and of great value for future reference and compilations.

In this connection it is proper to acknowledge the valuable aid which has been derived from the reports of Massachusetts and Rhode Island, which have been freely consulted in preparing this report, especially the former, which has proven particularly interesting on account of the practical equality in population between that State and our own.

A delay of a month occurred in the publication of this report owing to the large amount of other work in the hands of the State printers this year, but great credit is due them for the good taste displayed in its typography. The fact must not be overlooked that under the present registration law, the returns for 1885, from which this report was compiled, were not received at this office until September and October, 1886.

Respectfully submitted,

GILBERT R. OSMUN,
Secretary of State.

BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN,

DURING THE YEAR 1885.

The facts concerning births, marriages and deaths, returned as having occurred in Michigan during the year 1885, are presented in this Nineteenth Annual Report on this subject. Like its predecessors it is based upon the returns received from the county clerks.

In Exhibit A may be seen a comparative statement of the number of births, marriages and deaths for a series of years and the average for ten years. For the year 1885, there were returned 42,119 births, 15,016 marriages, and 16,646 deaths, making an aggregate of 73,781, or 315 more than the total returned for the year 1884.

As compared with the year 1884, there were returned 1,711 more births, 14 more marriages, and 1,410 fewer deaths. The average annual number of births returned for the ten years 1875-1884 was 35,719, the average number of marriages 14,310, and the average number of deaths 15,139. It is thus seen that the returns for the year 1885 exceed the average in each case.

The natural increase of population, or excess of births over deaths was 25,473, the largest excess since the registration began in Michigan. It is 3,121 more than the natural increase in 1884, and 4,893 more than the average for the ten years 1875-1884.

When the returns of births and deaths are corrected for omissions in the enumeration, as in the lower part of this exhibit, the excess of births for 1885 is shown to be 35,322.

EXHIBIT A.—*Births, Marriages, and Deaths returned as having occurred in Michigan during each of the Years 1882 to 1885, and the average for Ten Years 1875-1884, as Returned, and as Corrected for Omissions in the Enumeration.*

		1882.	1883.	1884.	1885.	Average 10 Years 1875-1884.
As Returned.	Marriages *	16,830	17,078	15,721	15,016	14,310
	Births	37,026	40,809	40,408	42,119	35,719
	Deaths	16,425	16,906	18,056	16,646	15,139
	Excess of births over deaths	20,601	23,903	22,352	25,473	20,580
As Cor- rected for Omissions	Births	49,813	56,215	55,156	58,026	50,563
	Deaths	27,306	23,640	25,133	22,704	22,319
	Excess of births over deaths	22,507	32,575	30,023	35,322	28,264

* Corrected for additional returns up to Nov. 1, 1886.

POPULATION.

In accordance with the method previously used, the estimated population of Michigan for the year 1885 would be 1,912,159. This calculation is based upon the presumption that the annual rate of increase for the year 1885 was the same as that between the census years 1880-1884, which was 3.156 per cent. In an estimate of this kind, and in fact, in any estimate, there is a certain amount of error owing to the movements of the inhabitants, but it probably approximates as nearly to the actual figures as any other computation. For instance, taking the number of votes cast at the last election, which was 380,885, and multiplying them by five, the usual ratio of voters to population, we get 1,904,425, which is 7,734 less than the number given above.

Based upon the first rate of increase, the population of the State for the years 1880-1885, that for the years 1880 and 1884 being the actual figures as per census, would be as follows :

Years.	Population.
1880.....	1,636,937
1881.....	1,688,509
1882.....	1,741,891
1883.....	1,796,865
1884.....	1,853,658
1885.....	1,912,159

Exhibit B shows some of the important relations which exist between births, marriages, deaths, and the inhabitants of the State. The natural daily increase of population in 1885, according to the returns of births and deaths, was 69, a number larger than in any of the previous years. By the returns and the population of 1884, one child was born, in 1885, to every 44 persons, one marriage was solemnized to every 123 persons, and one death occurred to every 111 persons.

In the statements for the years 1881-1883, the population of the State according to the U. S. census of 1880 was used as the basis of calculations, while for the years 1884 and 1885, the population by the State census of 1884 was used.

During the period of nineteen years, 1867 to 1885 inclusive, there were returned to the State Department 611,521 births, 220,465 marriages, and 250,375 deaths, making a grand total of 1,082,361.

EXHIBIT B.—Statements concerning Births, Marriages, and Deaths in Michigan during the Years 1881–1885, inclusive.

	1881. ^a	1882. ^a	1883. ^a	1884. ^b	1885. ^b
Inhabitants represented by returns of marriages to one marriage..... ^c	102.83	97.26	95.85	117.91	123.45
In population, represented by marriages, males to one marriage.....	54.17	51.24	50.49	61.98	64.89
In population, represented by marriages, females to one marriage.....	48.66	46.02	45.35	55.91	58.54
Inhabitants, represented by births to each child returned.....	46.90	44.11	40.02	45.78	43.95
Inhabitants, males to each male child returned.....	47.82	44.85	40.57	46.49	44.86
Inhabitants, females to each female child returned....	46.06	43.41	39.58	45.20	43.11
Inhabitants, represented by deaths to one death.....	84.31	99.34	96.59	102.40	110.90
Inhabitants, males to one death of male.....	83.18	98.68	94.48	101.32	107.50
Inhabitants, females to one death of female.....	86.23	100.85	99.78	104.61	115.68
Deaths, males to 100 females.....	115.19	113.69	117.46	114.36	119.24
Births, males to 100 females.....	107.13	107.83	108.52	107.70	106.50
Total population of State, males to 100 females.....	111.33	111.33	111.33	110.85	110.85
Births to one death.....	1.81	2.25	2.41	2.24	2.53
Births, males to one death of male.....	1.75	2.20	2.33	2.18	2.40
Births, females to one death of female.....	1.88	2.32	2.52	2.32	2.69
Children born, of which the sex was unknown or not stated.....	61.00	60.00	61.00	66.00	63.00
Decedents of which the sex was unknown or not stated	65.00	48.00	57.00	82.00	52.00
Natural daily increase of population as per births and deaths returned.....	42.49	56.44	66.00	61.00	69.00
Natural daily increase of population where returns of births and deaths are corrected for omissions in the enumeration.....	61.41	61.66	69.00	82.00	97.00

^a In computing statements for this column the population of 1880 was used.

^b In computing statements for this column the population of 1884 was used.

^c Marriages corrected for additional returns up to Nov. 1, 1886.

As may be seen from Exhibit C, there has been a gradual increase during the whole period in the number returned with an occasional decrease. The average for these years may be noticed at the bottom of the exhibit. There has been a noticeable decrease in the number of marriages returned for the years 1884 and 1885. The returns for 1888 embrace only a fractional part of the year, namely, from April 5 to December 31.

The facts set forth in Exhibit D show the number of births, marriages and deaths for certain specified periods of time within the year 1885. These results are often better appreciated when given for short periods of time as in this exhibit. According to the returns, there were 115 births, 41 marriages, and 46 deaths on an average during each day of the year 1885. The daily increase of population, as shown by the excess of births over deaths, was 69 per day.

When the returns of births and deaths are corrected for omissions, as in the lower part of the exhibit, the figures are considerably increased.

In Exhibit E may be found the number of births, deaths, and excess of births over deaths as they occurred in the different months of the years 1880–1885, also the average excess of births for the ten years 1876–1885. An examination of the Exhibit will show that the largest excess of births for the year 1885 was in the month of May. This is not the same as the average for ten years, which is almost invariably in the month of December.

VITAL STATISTICS OF MICHIGAN, 1885.

EXHIBIT C.—*The Number of Births, Marriages, Deaths, and Excess of Births over Deaths, as returned for each of the years 1867-1885.*

Years.	Births.	Marriages.	Deaths.	Excess of Births over Deaths.
1867.....	19,544	5,703	6,250	13,294
1868.....	19,171	5,485	6,326	12,845
1869.....	27,063	8,459	9,145	17,948
1870.....	26,663	9,160	10,766	15,897
1871.....	25,962	10,181	9,728	16,234
1872.....	27,993	9,882	13,371	14,622
1873.....	34,608	10,574	14,258	20,350
1874.....	31,151	11,041	12,500	18,651
1875.....	31,953	11,055	11,990	19,963
1876.....	34,235	10,858	12,576	21,659
1877.....	33,395	11,009	12,919	20,476
1878.....	35,162	12,221	12,766	22,396
1879.....	34,122	13,225	14,407	19,715
1880.....	35,323	14,149	16,102	19,221
1881.....	34,749	14,847	19,238	15,511
1882.....	37,026	16,178	16,425	20,601
1883.....	40,809	16,420	16,906	23,903
1884.....	40,408	15,002	18,056	22,352
1885.....	42,119	15,016	16,646	25,473
Total.....	611,521	220,465	250,375	361,146
Average.....	32,185	11,603	13,178	19,008

EXHIBIT D.—*The number of Marriages, Births, Deaths, and Excess of Births over Deaths in Michigan during the year 1885, the Average Number and Excess for Specified Periods of Time within the Year as returned, and the same for Births and Deaths as corrected for Omissions in the Enumeration.*

Periods of Time,—1885.		Marriages, 1885.	Births, 1885.	Deaths, 1885.	Excess of Births over Deaths.
As Returned.	Year, 1885 ^a	15,016	42,119	16,646	25,473
	Quarter.....	3,754	10,530	4,162	6,368
	Month.....	1,251	3,510	1,387	2,123
	Week.....	289	810	320	490
	Day.....	41	115	46	69
Births and Deaths as Corrected.	Year, 1885 ^b		58,026	22,704	35,322
	Quarter.....		14,507	5,676	8,831
	Month.....		4,836	1,892	2,944
	Week.....		1,116	437	679
	Day.....		159	62	97

^a Unknown month included.^b Corrected as if enumerated in months of occurrence.

BIRTHS, MARRIAGES, AND DEATHS.

5

EXHIBIT E.—By Months, the Births, Deaths, and Excess of Births over Deaths, according to the Returns, in Michigan, during each of the years 1880–1885, inclusive.

	Total. *	Months.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1880.													
Births.....	35,287	2,355	2,513	2,850	2,824	2,880	2,772	3,011	3,285	3,278	3,173	3,068	3,278
Deaths.....	16,050	860	1,002	1,149	1,289	1,106	1,096	1,527	1,780	1,676	1,471	1,486	1,617
Excess of births.....	19,238	1,495	1,511	1,701	1,535	1,774	1,736	1,484	1,505	1,602	1,702	1,582	1,661
1881.													
Births.....	34,719	2,303	2,432	2,835	2,805	2,887	2,712	3,027	3,313	3,204	3,078	2,854	3,179
Deaths.....	19,172	1,005	1,078	1,315	1,427	1,457	1,276	1,701	2,248	2,301	1,941	1,617	1,748
Excess of births.....	15,547	1,298	1,354	1,520	1,378	1,431	1,436	1,326	1,067	903	1,137	1,237	1,431
1882.													
Births.....	36,985	2,486	2,536	3,004	3,059	3,031	2,733	3,100	3,521	3,444	3,379	3,215	3,477
Deaths.....	16,347	978	1,171	1,372	1,311	1,480	1,264	1,284	1,453	1,545	1,498	1,421	1,570
Excess of births.....	20,638	1,508	1,365	1,632	1,748	1,551	1,469	1,816	2,068	1,899	1,881	1,794	1,907
1883.													
Births.....	40,767	2,654	2,734	3,312	3,455	3,607	3,333	3,576	3,765	3,694	3,664	3,368	3,555
Deaths.....	16,357	1,066	1,134	1,374	1,500	1,430	1,254	1,439	1,651	1,613	1,401	1,397	1,598
Excess of births.....	23,910	1,588	1,600	1,938	1,955	2,237	2,079	2,137	2,114	2,081	2,263	1,961	1,957
1884.													
Births.....	40,359	2,748	2,878	3,488	3,430	3,490	3,407	3,432	3,673	3,559	3,445	3,215	3,544
Deaths.....	18,000	1,087	1,181	1,421	1,382	1,456	1,296	1,520	1,917	1,877	1,752	1,526	1,615
Excess of births.....	22,359	1,661	1,697	2,077	2,048	2,024	2,141	1,962	1,756	1,682	1,693	1,689	1,929
1885.													
Births.....	42,083	2,707	2,987	3,533	3,618	3,730	3,346	3,567	3,924	3,905	3,624	3,363	3,689
Deaths.....	16,590	1,131	1,297	1,421	1,474	1,296	1,185	1,363	1,486	1,559	1,492	1,362	1,564
Excess of Births.....	25,493	1,576	1,720	2,112	2,144	2,444	2,161	2,204	2,438	2,436	2,132	2,001	2,125
Monthly averages of excess for 1876 to 1885, inclusive.....	21,134	1,521	1,516	1,800	1,768	1,863	1,834	1,838	1,782	1,760	1,834	1,736	1,862

* Unknown month excluded.

VITAL STATISTICS OF MICHIGAN 1885.

EXHIBIT F.—Showing, by Sex, the Population in 1884, the number of Marriages, Births, and Deaths, and the excess of Births over Deaths, in Michigan during the Year 1885.

State and Counties.	Population, 1884.			Marriages, 1885.	Births, 1885.			Deaths, 1885.			Excess of Births over Deaths.			
	Total.	Sex.			Total.	Sex.		Total.	Sex.		Total.	Sex.		
		Males.	Females.			Un- known.	Males.		Females.	Un- known.		Males.	Females.	Un- known.
State	1,853,658	974,424	879,232	206	15,016	21,960	20,366	63	16,646	9,025	7,569	12,665	12,797	11
Alcona	4,028	2,428	1,600	—	32	34	33	—	31	16	15	18	18	—
Alger	—	—	—	—	3	1	3	3	3	2	1	—	—	—
Allegan	38,666	20,052	18,614	—	324	436	429	—	301	158	143	278	286	3
Alpena	12,683	6,990	5,693	—	133	400	205	—	100	54	46	141	159	—
Antrim	8,761	4,736	4,025	—	56	179	96	2	55	29	26	67	55	2
Arenac	4,027	2,319	1,708	—	15	120	72	48	35	22	13	50	35	—
Baraga	3,080	1,319	1,220	—	15	105	55	50	34	19	15	36	35	—
Barry	24,102	12,507	11,595	—	209	375	195	180	123	61	62	134	118	—
Bay	51,221	28,215	23,006	—	307	1,671	864	807	463	261	202	1,206	605	—
Benzie	4,389	2,549	2,040	—	45	114	57	57	50	24	26	33	31	—
Berrien	37,776	19,225	18,551	—	432	687	334	350	3	312	178	181	219	—
Branch	27,661	14,042	13,619	—	281	391	193	198	223	111	112	165	86	—
Calhoun	41,585	21,297	20,285	8	342	621	299	316	6	304	161	138	178	1
Cass	21,202	10,886	10,316	—	208	349	179	169	1	148	82	65	104	—
Charlevoix	9,275	5,030	4,245	—	47	179	99	80	56	37	19	62	61	—
Cheboygan	9,946	5,503	4,443	—	80	350	187	163	74	43	31	144	132	—
Chippewa	8,422	4,746	3,676	—	69	193	93	100	62	37	25	56	75	—
Clare	5,549	3,251	2,298	—	52	125	65	60	49	23	26	42	34	—
Clinton	27,135	14,034	13,101	—	202	492	228	259	181	94	84	134	175	3

BIRTHS, MARRIAGES, AND DEATHS.

7

	2,389	1,381	1,008	19	43	23	20		23	15	8	20	8	12	.....
Crawford.....	9,992	5,876	4,116	79	233	108	125	.....	74	32	42	159	76	83	.....
Delta.....	31,802	16,210	15,592	283	590	282	308	.....	280	146	124	310	186	174	.....
Eaton.....	7,944	4,085	3,849	57	118	58	59	1	80	41	39	38	17	20	1
Emmet.....	38,776	19,782	18,994	289	639	335	303	1	282	155	127	357	180	176	1
Genesee.....	1,539	899	640	19	36	17	19	.....	7	6	1	29	11	18	.....
Gladwin.....	12,062	6,522	5,570	85	242	125	117	.....	87	46	41	155	79	76	.....
Grand Traverse.....	26,049	13,204	11,845	210	504	257	245	2	120	66	53	384	191	192	1
Gratiot.....	31,686	15,911	15,775	341	343	159	189	.....	242	131	111	108	28	78	.....
Hillsdale.....	28,146	14,168	11,978	193	1,003	539	464	.....	252	163	88	751	376	376	-1
Houghton.....	24,521	12,694	11,585	114	741	385	355	1	174	101	73	567	284	282	1
Huron.....	34,639	17,917	17,022	301	582	285	295	2	297	146	150	235	139	145	1
Ingham.....	32,559	17,057	15,502	232	523	281	247	.....	264	129	135	294	152	112	.....
Ionia.....	10,602	6,080	4,542	86	238	124	114	.....	120	68	52	118	56	62	.....
Iosco.....				7	107	53	51	3	29	13	14	78	40	37	1
Iron.....				142	444	235	209	.....	172	92	86	272	143	129	.....
Isabella.....	45,232	23,385	21,847	387	786	410	376	.....	315	166	149	471	244	227	.....
Jackson.....	35,231	17,875	17,406	243	601	316	235	.....	304	170	184	297	146	151	.....
Kalamazoo.....	4,493	2,470	2,023	23	111	61	49	1	36	22	14	75	39	35	1
Kalkaska.....	84,600	43,467	41,133	843	1,968	1,009	938	1	694	353	335	1,274	651	623	.....
Kent.....	4,667	2,551	2,116	17	136	76	60	.....	38	26	11	98	50	49	-1
Keeweenaw.....	7,539	4,528	3,011	55	89	49	40	.....	23	12	11	66	37	29	.....
Lake.....	30,057	15,568	14,489	238	576	300	275	1	194	99	95	332	201	180	1
Lapeer.....	7,128	3,842	3,286	46	211	116	95	.....	60	25	35	151	91	60	.....
Leelanaw.....	49,584	24,916	24,668	505	658	341	317	.....	368	192	176	230	149	141	.....
Lenawee.....	21,568	11,254	10,314	124	302	156	146	.....	143	76	67	159	80	79	.....
Livingston.....	5,171	2,948	2,223	29	121	65	55	1	51	33	18	70	32	37	1
Mackinac.....	31,233	15,978	15,315	241	719	387	351	1	299	160	139	430	207	212	1

EXHIBIT F.—CONTINUED.

Counties.	Population, 1884.				Marriages, 1885.	Births, 1885.				Deaths, 1885.				Excess of Births over Deaths.			
	Total.	Sex.				Total.	Sex.			Total.	Sex.			Total.	Sex.		
		Males.	Females.	Un- known.			Males.	Females.	Un- known.		Males.	Females.	Un- known.		Males.	Females.	Un- known.
Manistee	19,875	10,879	8,998		155	649	350	297	2	159	93	65	1	490	257	232	1
Manitou	1,198	547	456	195	7	31	17	14		3	3			28	14	14	
Marquette	31,397	17,580	13,817		141	982	492	490		303	143	137		679	328	353	
Mason	13,221	7,222	5,989		80	357	198	199		75	35	40		282	153	129	
Mecosta	20,597	11,283	9,314		204	413	207	206		123	70	53		290	137	153	
Menominee	19,120	11,488	7,632		157	592	297	302	3	152	93	56	3	440	194	246	
Midland	8,776	4,728	4,048		85	242	128	114		60	31	29		182	97	85	
Missaukee	3,388	2,036	1,350		22	107	58	49		39	22	17		68	36	32	
Monroe	33,353	17,186	16,167		333	759	380	369		231	156	125		478	234	244	
Montcalm	35,356	18,774	16,581	1	297	596	285	311		208	118	90		388	167	221	
Montmorency	845	494	351		7	36	18	18		10	4	6		26	14	12	1
Muskegon	37,554	20,522	17,029	3	333	960	497	462	1	322	171	151		638	328	311	
Newaygo	18,996	10,684	8,312		111	244	125	119		101	51	50		143	74	69	
Oakland	41,100	20,821	20,279		281	595	314	281		310	179	131		285	135	150	
Oceana	14,519	7,859	6,660		112	326	180	146		134	68	66		192	112	80	
Ogemaw	3,637	2,041	1,596		25	76	32	44		28	19	7		50	13	37	
Ontonagon	4,836	3,329	1,507		18	77	37	40		18	13	5		59	24	35	
Osceola	14,001	7,533	6,468		101	354	194	160		92	44	48		292	150	112	
Oscoda	1,374	798	576		11	37	18	19		7	3	4		30	15	15	
Otsego	3,906	2,223	1,683		40	102	61	41		24	14	10		78	47	31	

BIRTHS, MARRIAGES, AND DEATHS.

9

Ottawa.....	86,225	18,970	17,235	275	688	496	389	13	310	154	148	8	528	233	241	5
Presque Isle.....	4,064	2,168	1,898	28	174	90	78	...	35	20	15	...	139	76	68	...
Roscommon.....	2,588	1,813	775	13	19	8	11	...	3	...	3	...	16	8	8	...
Saginaw.....	74,795	41,588	33,217	483	2,080	1,094	966	...	755	453	321	1	1,325	641	695	-1
Sanilac.....	29,583	15,518	14,005	209	812	373	436	3	266	130	134	2	546	243	323	1
Schoolcraft.....	3,846	2,568	1,278	38	32	21	11	...	11	11	...	...	21	10	11	...
Shiawassee.....	28,078	14,731	13,347	227	454	234	220	...	155	80	75	...	299	154	145	...
St. Clair.....	46,783	24,058	22,723	382	1,140	591	548	1	404	219	185	...	736	372	363	1
St. Joseph.....	23,277	13,235	12,982	344	376	186	189	1	199	106	93	...	177	80	96	1
Tuscola.....	30,728	16,126	14,600	231	639	341	296	2	245	123	121	1	394	218	175	1
Van Buren.....	30,341	15,377	14,964	267	509	281	228	...	250	146	104	...	259	135	124	...
Washtenaw.....	41,694	21,067	20,627	233	729	343	331	...	335	203	132	...	394	145	249	...
Wayne.....	188,966	94,492	94,474	1,506	6,561	3,454	3,105	2	3,522	1,905	1,601	16	3,039	1,549	1,504	-14
Wexford.....	10,518	5,732	4,786	100	257	135	122	...	77	41	35	1	180	94	87	-1

The total number of births returned to the State Department by the county clerks, in 1885, was 42,119, a number more by 1,711 than were recorded in 1884, and the largest number ever returned in any one year. The average annual number returned for the fifteen years, 1870-1884, was 33,573, and the births, in 1885, were more than this average by 8,546.

The population of Michigan, according to the State Census of 1884, was 1,858,658. When 2,530 is subtracted, being the number of inhabitants from whom no returns of births were received in 1885, it gives 1,851,128 as the number of inhabitants represented by the returns of births for 1885. This number, divided by the number of births returned, would give one child born to every 44 persons in the State, and 22.75 births to every thousand of the inhabitants. Using the estimated population of Michigan for 1885, which is 1,912,159, as the basis of calculations, it gives 22.03 as the number of births to every thousand of the inhabitants.

It is a well-known fact that these returns of births, from year to year, do not represent all the children born in Michigan, because of the delay in collecting these statistics. From five to sixteen months pass after the births occur before their enumeration is made, which leads to many omissions. In proof of this we take the following tabular exhibit from Vol. 1, of the Census of Michigan, 1884 :

[illegible]

In consequence of these omissions in the enumeration of the births, a correction has been made, which amounts in 1885 to 37.80 per cent of the births returned. The following tabular exhibit shows what per cent of births has been returned and what per cent has been added as a correction for each of the years 1876-1885.

Years.	Per Cent of Births Returned.	Per Cent of Births added as Correction for Omissions.
1876.....	75.78	33.04
1877.....	66.47	50.44
1878.....	67.41	48.34
1879.....	68.06	46.91
1880.....	69.73	43.42
1881.....	69.76	43.35
1882.....	74.31	34.57
1883.....	72.57	37.79
1884.....	73.24	36.54
1885.....	72.57	37.80
Average for 10 years.....	70.96	41.12

The system of correction, which has been adopted in these reports, has its defects and does not always represent the true figures, but it seems as practicable as any that can be used. According to this plan the number of births returned for 1885 should be increased by 37.80 per cent in order to equal the number which probably occurred. This increases the number of births to 58,026.

As seen in the following tabular exhibit, the birth-rate, when thus corrected, was 3.13 for every hundred of the inhabitants, or 31.3 for every thousand.

Sex.	Inhabitants in 1884 Represented by births in 1885.	Births as Returned.	Births Corrected for Omissions in Enumerating.	Per Cent of Births to Inhabitants.	
				Births as Returned.	Births Corrected for Omissions.
Total.....	1,851,128	42,119	58,026	2.28	3.13

The average number of births per quarter, month, week, and day during the year 1885, may be seen in the following tabular exhibit :

Periods of Time.	Births as Returned.	Corrected for Omissions.	Corrected with 41.12 Per Cent.
Per quarter.....	10,530	14,507	14,800
Per month.....		4,836	4,953
Per week.....			1,143
Per day.....			163

TABLE I.—*Births by Quarters of the Year for the Years 1882-1885 and the Average for Ten Years 1875-1884.*

Totals and Months with which Quarters end.		1882.		1883.		1884.		1885.		Av. for 10 Years, 1875-1884.	
		Num-ber.	Per Cent of Total.	Num-ber.	Per Cent of Total.	Num-ber.	Per Cent of Total.	Num-ber.	Per Cent of Total.	Num-ber.	Per Cent of Total.
Totals		37,026	100.00	40,809	100.00	40,408	100.00	42,119	100.00	36,719	100.00
As Returned.	March.....	8,026	21.68	8,700	21.32	9,124	22.58	9,227	21.90	7,785	21.06
	June.....	8,823	23.83	10,455	25.62	10,317	25.53	10,604	25.39	8,748	24.49
	September.....	10,065	27.18	11,035	27.04	10,714	26.52	11,486	27.27	9,702	27.16
	December.....	10,071	27.30	10,577	25.92	10,204	25.25	10,676	25.35	9,484	25.55
	Unknown.....	41	.11	42	.10	49	.12	36	.09	50	.14
Average.....*		9,257	25.00	10,302	25.00	10,102	25.00	10,530	25.00	8,980	25.00
Totals.....		49,813	100.00	56,215	100.00	55,156	100.00	58,026	100.00	50,583	100.00
As Corrected for Omissions.	March.....	12,097	24.28	13,482	23.98	13,932	25.26	14,278	24.61	12,442	24.80
	June.....	12,430	24.95	15,081	26.83	14,692	26.64	15,417	26.57	13,029	25.76
	September.....	13,128	26.36	14,689	26.13	14,118	25.59	15,267	26.31	13,268	26.21
	December.....	12,117	24.33	12,921	22.99	12,365	22.42	13,028	22.45	11,805	23.34
	Unknown.....	41	.08	42	.07	49	.09	36	.06	49	.09
Average.....*		12,453	25.00	14,054	25.00	13,789	25.00	14,507	25.00	12,646	25.00

* The number in unknown quarter of year included.

The upper half of the above table shows the number and percentage of births in Michigan, according to the returns, in each quarter of the years 1882-1885, with the average for ten years 1875-1884. Except 1882, the largest proportion of births is returned for the quarter of the year ending with September, this being also true for the average. The lower half of the table shows the number and proportion of births by quarters of the year when corrected for omissions in the enumeration.

In Table 2 may be seen the order of the months, those being placed first which have the greatest number of births, for each of the years 1883-1885, and the average for ten years 1875-1884. With the exception of the year 1885, the month of August has the largest proportion of births, not only for the other years of the table but also for the ten year average.

TABLE 2.—*Births during the Years 1883-1885, according to the Returns, the Average for ten years 1875-1884, showing Number and Percentage, by months, arranged in order of greatest first,*

Order.	1883.			1884.			1885.			Average for 10 Years, 1875-1884.		
	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.
	Total...	40,809	100.00	Total...	40,408	100.00	Total...	42,119	100.00	Total...	35,719	100.00
1	Aug....	3,765	9.23	Aug....	3,673	9.09	Sept. ...	3,995	9.46	Aug....	3,350	9.38
2	Sept. ...	3,694	9.05	Sept. ...	3,559	8.81	Aug....	3,924	9.32	Dec. ...	3,290	9.21
3	May....	3,667	8.98	Dec....	3,544	8.77	May....	3,730	8.86	Sept....	3,283	9.19
4	Oct....	3,664	8.98	March.	3,498	8.66	Dec....	3,689	8.76	Oct. ...	3,191	8.93
5	July....	3,576	8.76	July....	3,482	8.63	Oct. ...	3,624	8.60	July ..	3,069	8.59
6	Dec....	3,555	8.71	May....	3,480	8.61	April..	3,618	8.59	Nov....	3,008	8.41
7	April..	3,455	8.47	Oct. ...	3,445	8.53	July....	3,567	8.47	May....	2,968	8.33
8	Nov....	3,358	8.23	April..	3,430	8.49	March.	3,533	8.39	April..	2,931	8.21
9	June ..	3,333	8.17	June ..	3,407	8.43	Nov....	3,363	7.99	March.	2,904	8.10
10	March.	3,312	8.12	Nov....	3,315	7.96	June ..	3,346	7.94	June ..	2,831	7.93
11	Feb....	2,734	6.70	Feb....	2,878	7.13	Feb....	2,967	7.09	Feb....	2,456	6.88
12	Jan. ...	2,654	6.50	Jan. ...	2,743	6.80	Jan. ...	2,707	6.43	Jan. ...	2,385	6.68
	Unk. ...	43	.10	Unk....	49	.12	Unk. ...	36	.09	Unk. ...	56	.14
	Av.* ...	3,401	8.33	Av.* ...	3,367	8.33	Av.* ...	3,510	8.33	Av.* ...	2,977	8.33

* Including births in unknown month.

Table 3 shows the order of the months after the correction for omissions has been made. August has the largest proportion in the average for ten years, and November has the least number of births for each year and the average.

TABLE 3.—*Births during the Years 1883-1885, and average for Ten Years 1875-1884, as Corrected for Omissions in the Enumeration, exhibiting the Number and Percentage, by Months, arranged in order of greatest first.*

Order.	1883.			1884.			1885.			Average for 10 Years, 1875-1884.		
	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.
	Totals.	56,215	100.00	Totals.	55,156	100.00	Totals.	58,026	100.00	Totals.	50,588	100.00
1	May..	5,238	9.41	Mar....	5,228	9.48	May....	5,374	9.26	Aug. ..	4,588	9.06
2	Apr. ...	5,109	9.09	Apr. ...	5,006	9.07	Mar....	5,349	9.22	Mar. ...	4,544	8.98
3	Mar....	5,020	8.93	May ...	4,955	8.98	Apr....	5,345	9.20	Apr....	4,484	8.86
4	Aug....	5,013	8.92	Aug....	4,841	8.78	Aug....	5,221	9.00	May....	4,445	8.79
5	July....	4,998	8.70	June....	4,731	8.58	Sept. ...	5,189	8.91	Sept....	4,356	8.61
6	Sept. ...	4,788	8.51	July....	4,712	8.54	July....	4,877	8.40	July....	4,319	8.54
7	June ..	4,684	8.33	Sept. ...	4,566	8.28	June ..	4,698	8.10	Oct. ...	4,104	8.12
8	Oct.....	4,609	8.20	Feb.	4,408	7.98	Feb.	4,632	7.98	June ..	4,100	8.11
9	Feb....	4,244	7.55	Jan.	4,301	7.80	Oct. ...	4,556	7.85	Dec....	3,962	7.83
10	Jan....	4,218	7.50	Oct.	4,297	7.79	Dec....	4,387	7.53	Feb....	3,957	7.82
11	Dec. ...	4,211	7.49	Dec.	4,171	7.56	Jan....	4,297	7.42	Jan....	3,941	7.79
12	Nov. ...	4,101	7.29	Nov. ...	3,897	7.07	Nov....	4,105	7.07	Nov. ...	3,739	7.39
	Unk. ...	42	.08	Unk. ...	49	.09	Unk. ...	36	.06	Unk. ...	49	.10
	Av. a. ...	4,685	8.33	Av. a. ...	4,596	8.33	Av. a. ...	4,836	8.33	Av. a. ...	4,215	8.33

a Including births in unknown month.

PROPORTION OF THE SEXES.

In 1885, the births of males exceed those of females, as usual in this State, there being 107 males to each 100 females, or 51.57 males to 48.43 females in each 100 children born. During the period of fifteen years from 1870 to 1884, the average excess of male births was 108 males to 100 females.

There were 63 births returned in 1885 whose sex was not given. In 1884 there were 86.

TABLE 4.—*Exhibiting, by Counties and by Sex, the Number of Births Returned for the Year, and in each Month of the Year ending Dec. 31, 1885. (Still-births included.)*

State and Counties.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State	Totals.....	42,119	2707	2987	3533	3618	3730	3346	3567	3924	3995	3624	3363	3689	36
	Males.....	21,690	1384	1558	1820	1855	1891	1710	1879	1994	2049	1843	1768	1922	17
	Females...	20,366	1319	1426	1703	1758	1832	1634	1682	1923	1941	1777	1590	1764	17
	Unknown..	63	4	3	10	5	7	2	6	7	5	4	5	3	2
Alcona	Totals.....	67	3	3	5	6	7	10	5	2	4	6	4	12	...
	Males.....	34	2	2	4	2	1	5	1	2	3	2	2	8	...
	Females...	33	1	1	1	4	6	5	4	...	1	4	2	4	...
Alger	Totals.....	7	...	1	2	1	...	...	...	1	...	2	...	...	...
	Males.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...
	Females...	3	...	...	...	1	...	...	...	...	...	2	...	...	...
Allegan	Totals.....	865	52	69	78	80	72	63	78	81	77	72	63	80	...
	Males.....	436	24	36	40	44	32	28	44	43	35	42	28	40	...
	Females...	429	28	33	38	36	40	35	34	38	42	30	35	40	...
Alpena	Totals.....	400	22	34	39	54	32	27	45	36	29	26	28	28	...
	Males.....	195	14	17	19	23	15	13	22	20	13	12	11	16	...
	Females...	205	8	17	20	31	17	14	23	16	16	14	17	12	...
Antrim	Totals.....	179	10	10	13	15	15	19	17	23	17	16	12	12	...
	Males.....	96	7	6	8	7	7	6	10	13	9	6	9	8	...
	Females...	81	3	4	5	8	7	13	6	10	8	10	3	4	...
Arenac	Totals.....	120	5	6	14	11	13	20	9	6	13	7	3	13	...
	Males.....	72	4	4	8	7	8	11	5	4	8	3	2	8	...
	Females...	48	1	2	6	4	5	9	4	2	5	4	1	5	...
Baraga	Totals.....	105	3	9	12	5	10	4	13	8	8	13	10	10	...
	Males.....	55	3	1	7	5	5	1	8	4	4	5	5	7	...
	Females...	50	...	8	5	...	5	3	5	4	4	8	5	3	...
Barry	Totals.....	375	25	17	29	27	51	20	33	41	39	26	28	39	...
	Males.....	195	12	10	14	16	24	11	19	22	26	10	12	19	...
	Females...	180	13	7	15	11	27	9	14	19	13	16	16	20	...

TABLE 4.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

Counties.	Sex.	Year, 1885.	Months, 1885.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Bay	Totals.....	1,671	124	127	141	154	139	121	140	155	151	123	132	164	...
	Males.....	864	75	67	73	64	74	60	64	88	80	56	73	90	...
	Females...	807	49	60	68	90	65	61	76	67	71	67	59	74	...
Benzie.....	Totals.....	114	4	6	9	10	13	10	13	8	16	9	10	6	...
	Males.....	57	.....	2	4	6	6	5	9	7	7	4	6	1	...
	Females...	57	4	4	5	4	7	5	4	1	9	5	4	5	...
Berrien	Totals.....	687	34	55	57	55	58	57	59	60	72	60	59	61	...
	Males.....	334	16	24	23	26	31	33	25	31	31	29	33	32	...
	Females...	350	18	31	33	29	27	24	33	28	41	31	26	29	...
	Unknown..	3	.....	.....	1	.....	.....	.....	1	1	.....	.....	.....	.....	...
Branch	Totals.....	391	26	27	36	31	37	26	33	43	38	21	41	32	...
	Males.....	193	15	14	18	13	20	10	20	18	18	13	19	15	...
	Females...	198	11	13	18	18	17	16	13	25	20	8	22	17	...
Calhoun.....	Totals.....	621	32	42	43	42	56	50	71	55	64	51	49	62	4
	Males.....	299	16	21	21	24	26	27	37	23	30	23	23	27	1
	Females...	316	16	21	21	18	28	23	34	32	33	28	25	34	3
	Unknown..	6	.....	.....	1	.....	2	.....	.....	.....	1	.....	1	1	...
Cass.....	Totals.....	349	15	18	25	29	34	27	23	36	46	38	31	25	2
	Males.....	179	6	9	16	15	17	14	9	19	22	20	19	11	2
	Females...	169	9	9	9	14	17	13	14	17	24	17	12	14	...
	Unknown..	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	...
Charlevoix...	Totals.....	179	10	17	18	15	15	15	18	18	20	11	8	14	...
	Males.....	99	3	9	11	9	5	10	11	6	10	10	7	8	...
	Females...	80	7	8	7	6	10	5	7	12	10	1	1	6	...
Cheboygan...	Totals.....	350	25	24	34	35	33	27	24	26	27	36	26	33	...
	Males.....	187	14	11	16	22	18	16	13	13	16	16	14	18	...
	Females...	163	11	13	18	13	15	11	11	13	11	20	12	15	...
Chippewa...	Totals.....	193	15	21	19	18	21	12	16	19	11	17	7	17	...
	Males.....	93	7	15	7	10	12	3	6	8	7	8	4	6	...
	Females...	100	8	6	12	8	9	9	10	11	4	9	3	11	...
Clare.....	Totals.....	125	11	6	11	17	11	12	14	12	8	10	7	6	...
	Males.....	65	7	2	4	10	6	4	8	4	6	6	5	3	...
	Females..	60	4	4	7	7	5	8	6	8	2	4	2	3	...
Clinton.....	Totals.....	492	26	36	44	45	42	37	39	38	55	47	49	32	2
	Males.....	228	10	18	23	20	15	14	17	22	21	23	26	18	1
	Females...	259	16	18	21	22	27	23	22	16	34	24	21	14	1
	Unknown..	5	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	2	.....	...

BIRTHS, BY COUNTIES, BY MONTHS, BY SEX.

17

TABLE 4.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

Counties.	Sex.	Year. 1885.	Months, 1885.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Crawford.....	Totals.....	43	1	1	8	7	3	3	4	1	2	6	4	3	...
	Males.....	23	1		4	5	3		3	1		2	2	2	...
	Females.....	20		1	4	2		3	1		2	4	2	1	...
Delta.....	Totals.....	233	10	17	21	20	18	23	18	24	25	19	20	19	...
	Males.....	106	7	7	9	7	10	6	9	10	13	8	10	12	...
	Females.....	125	3	10	12	13	8	16	9	14	12	11	10	7	...
Eaton.....	Totals.....	590	30	37	49	43	42	44	50	56	78	58	50	52	1
	Males.....	282	16	21	26	20	19	19	24	28	39	28	23	25	...
	Females.....	308	14	16	23	23	23	25	26	28	39	30	28	27	1
Emmet.....	Totals.....	118	8	8	8	8	13	10	14	10	7	10	8	14	...
	Males.....	58	4	6	3	6	4	2	8	6	4	3	5	7	...
	Females.....	59	4	2	5	2	9	7	6	4	3	7	3	7	...
Genesee.....	Unknown.....	1						1							...
	Totals.....	639	41	46	48	55	64	51	49	64	66	53	57	46	...
	Males.....	335	18	25	23	28	38	27	31	39	28	28	33	18	...
Gladwin.....	Females.....	303	23	21	25	27	26	24	18	25	37	24	25	28	...
	Unknown.....	1									1				...
	Totals.....	36	1	1	2	5	4	1	4	6	2	3	3	3	1
G'd Traverse..	Males.....	17	1	1	2	3	4		1	1		2	1	1	...
	Females.....	19				2		1	3	5	2	1	2	2	1
	Totals.....	242	11	8	27	28	23	28	20	27	28	10	13	19	...
Gratiot.....	Males.....	125	6	4	12	14	14	11	11	14	15	5	7	12	...
	Females.....	117	5	4	15	14	9	17	9	13	13	5	6	7	...
	Totals.....	504	22	27	26	38	48	38	42	60	56	56	35	53	1
Hillsdale.....	Males.....	257	8	16	11	19	30	18	26	35	26	23	20	25	...
	Females.....	245	14	11	15	19	18	20	16	25	30	33	15	28	1
	Unknown.....	2										2			...
Houghton.....	Totals.....	348	31	19	31	35	28	26	29	26	31	32	16	34	...
	Males.....	159	13	7	16	18	12	16	17	15	17	11	6	11	...
	Females.....	189	18	12	15	17	16	10	12	21	14	21	10	23	...
Houghton.....	Totals.....	1,003	81	77	85	83	104	86	94	78	90	83	64	78	...
	Males.....	539	46	39	51	38	52	54	51	38	55	44	30	41	...
	Females.....	464	35	38	34	45	52	32	43	40	35	39	34	37	...

TABLE 4.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

Counties.	Sex,	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Huron	Totals	741	49	64	72	64	67	71	64	47	70	50	61	60	2
	Males	385	25	31	42	28	35	39	38	18	38	29	33	29	...
	Females...	355	24	33	30	36	32	32	26	29	32	21	28	31	1
	Unknown	1													1
Ingham	Totals	582	32	42	41	47	55	51	47	63	46	52	62	44	...
	Males	285	16	25	18	17	32	22	32	34	22	24	32	21	...
	Females...	295	16	17	23	30	22	29	25	29	24	28	30	22	...
	Unknown	2					1								1
Ionia	Totals	528	25	38	42	46	50	42	38	57	57	46	48	39	...
	Males	281	15	19	21	25	30	21	27	29	26	16	30	22	...
	Females...	247	10	19	21	21	20	21	11	28	31	30	18	17	...
Iosco	Totals	238	15	27	18	18	34	17	26	21	18	10	13	21	...
	Males	124	6	17	8	11	19	9	11	14	9	3	4	13	...
	Females...	114	9	10	10	7	15	8	15	7	9	7	9	8	...
Iron	Totals	107	10	11	14	11	9	4	10	11	8	7	8	2	2
	Males	53	4	8	6	6	4	1	5	6	5	4	2	1	1
	Females...	51	5	3	8	5	4	3	5	5	3	3	6	1	...
	Unknown	3	1				1								1
Isabella	Totals	444	36	29	35	39	49	41	43	34	47	36	27	27	1
	Males	235	18	16	19	23	18	23	26	12	30	18	16	15	1
	Females...	209	18	13	16	16	31	18	17	22	17	18	11	12	...
Jackson	Totals	786	43	56	74	76	46	72	63	72	83	60	69	72	...
	Males	410	20	31	39	39	25	26	37	33	47	39	37	37	...
	Females...	376	23	25	35	37	21	46	26	39	36	21	32	35	...
Kalamazoo ..	Totals	601	31	41	58	60	48	36	60	57	57	55	46	52	...
	Males	316	15	20	22	30	24	14	36	28	30	31	27	39	...
	Females...	285	16	21	36	30	24	22	24	29	27	24	19	13	...
Kalkaska	Totals	111	6	7	9	4	9	12	9	7	17	11	10	10	...
	Males	61	3	5	6	3	7	7	4	3	8	3	6	6	...
	Females...	49	3	2	3	1	2	5	5	4	9	8	3	4	...
	Unknown	1											1		...
Kent	Totals	1,968	126	139	172	159	178	136	172	194	171	178	185	157	1
	Males	1,009	74	72	86	86	87	59	86	97	87	92	92	90	1
	Females...	958	52	67	86	73	91	76	86	97	84	86	93	67	...
	Unknown	1						1							...

BIRTHS, BY COUNTIES, BY MONTHS, BY SEX.

19

TABLE 4.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

Counties.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Keweenaw	Totals.....	136	8	4	11	13	10	18	10	20	12	12	7	11	...
	Males.....	76	4	1	7	7	5	11	6	9	8	5	5	8	...
	Females...	60	4	3	4	6	5	7	4	11	4	7	2	3	...
Lake	Totals.....	89	2	4	9	4	7	11	14	10	9	9	3	7	...
	Males.....	49	1	...	5	3	1	8	8	4	6	6	3	4	...
	Females...	40	1	4	4	1	6	3	6	6	3	3	...	3	...
Lapeer	Totals.....	576	27	38	50	53	44	48	49	51	60	54	44	56	2
	Males.....	300	7	17	29	23	20	29	28	25	36	32	24	29	1
	Females...	275	20	21	21	30	24	19	21	26	23	22	20	27	1
	Unknown.	1	...	...	...	...	...	...	...	...	1	...	...	...	...
Leelanaw	Totals.....	211	15	15	22	23	16	11	22	15	26	21	14	11	...
	Males.....	116	9	10	13	10	8	6	11	10	15	12	6	6	...
	Females...	95	6	5	9	13	8	5	11	5	11	9	8	5	...
Lenawee	Totals.....	658	41	43	65	53	62	45	65	64	52	75	45	47	1
	Males.....	341	21	22	29	28	35	26	29	37	27	40	22	24	1
	Females...	317	20	21	36	25	27	19	36	27	25	35	23	23	...
Livingston	Totals.....	302	24	17	17	32	24	23	19	35	30	30	21	30	...
	Males.....	156	12	5	10	16	10	12	11	20	19	12	17	12	...
	Females...	146	12	12	7	16	14	11	8	15	11	18	4	18	...
Mackinac	Totals.....	121	5	6	12	10	17	15	5	14	11	7	9	10	...
	Males.....	65	3	5	8	6	6	8	3	4	8	4	6	4	...
	Females...	55	2	1	4	4	11	7	1	10	3	3	3	6	...
	Unknown.	1	...	...	...	...	...	...	...	1	...	...	...	...	...
Macomb	Totals.....	719	51	49	49	52	62	65	56	70	75	62	63	65	...
	Males.....	367	27	25	27	21	31	38	30	33	35	31	35	34	...
	Females...	351	24	24	21	31	31	27	26	37	40	31	28	31	...
	Unknown.	1	...	...	1	...	...	...	...	...	...	...	...	...	...
Manistee	Totals.....	649	50	36	48	62	56	49	44	80	51	50	56	67	...
	Males.....	350	24	17	34	36	34	26	19	39	24	27	32	38	...
	Females...	297	26	19	14	26	21	23	25	40	27	23	24	29	...
	Unknown.	2	...	...	...	...	1	...	...	1	...	...	...	...	...
Manitou	Totals.....	31	4	3	5	...	4	...	4	2	...	2	5	2	...
	Males.....	17	1	1	3	...	2	...	2	2	...	1	4	1	...
	Females...	14	3	2	2	...	2	...	2	...	...	1	1	1	...
Marquette	Totals.....	982	72	73	79	83	94	83	87	94	85	71	68	93	...
	Males.....	492	37	35	38	44	44	39	37	57	35	39	34	53	...
	Females...	490	35	38	41	39	50	44	50	37	50	32	34	40	...

VITAL STATISTICS OF MICHIGAN, 1885.

TABLE 4.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

Counties.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Mason.....	Totals.....	357	25	24	31	42	29	33	26	33	32	26	24	32	...
	Males.....	188	13	15	17	19	16	20	14	18	17	10	11	18	...
	Females...	169	12	9	14	23	13	13	12	15	15	16	13	14	...
Mecosta.....	Totals.....	413	22	23	36	39	41	30	42	36	38	37	31	37	1
	Males.....	207	10	11	19	20	23	13	19	21	17	16	18	19	1
	Females...	206	12	12	17	19	18	17	23	15	21	21	13	18	...
Menominee...	Totals.....	592	33	57	43	43	56	64	39	62	46	51	50	48	...
	Males.....	287	14	30	18	20	23	35	25	33	16	24	21	28	...
	Females...	302	19	27	25	23	33	29	14	29	29	26	28	20	...
	Unknown..	3	...	...	...	...	...	...	...	...	1	1	1	...	...
Midland.....	Totals.....	242	6	13	17	13	22	20	25	24	23	24	30	22	3
	Males.....	128	6	7	10	6	10	9	16	11	9	14	18	11	1
	Females...	114	...	6	7	7	12	11	9	13	14	10	12	11	2
Missaukee.....	Totals.....	107	7	8	11	9	11	10	8	9	16	7	10	6	...
	Males.....	58	5	...	8	4	5	6	4	4	9	3	6	4	...
	Females...	49	2	3	3	5	6	4	4	5	7	4	4	2	...
Monroe.....	Totals.....	759	44	56	57	67	79	56	44	69	85	78	61	63	...
	Males.....	390	23	28	25	41	28	29	22	41	48	35	36	34	...
	Females...	369	21	28	32	26	51	27	22	28	37	43	25	29	...
Montcalm.....	Totals.....	596	28	25	44	55	60	60	64	64	60	54	47	35	...
	Males.....	285	11	10	23	26	29	30	30	34	25	24	20	18	...
	Females...	311	17	15	16	29	31	30	34	30	35	30	27	17	...
Montmorency..	Totals.....	36	1	2	5	3	1	3	3	7	2	7	1	1	...
	Males.....	18	1	1	2	2	1	2	1	3	1	3	1	...	...
	Females...	18	...	1	3	1	...	1	2	4	1	4	...	1	...
Muskegon.....	Totals.....	960	63	79	98	86	87	55	70	93	87	67	80	95	...
	Males.....	497	36	37	47	45	51	29	33	50	43	36	41	49	...
	Females...	462	27	42	51	41	36	26	37	42	44	31	39	46	...
	Unknown..	1	...	...	...	...	...	...	...	1	...	...	...	...	...
Newaygo.....	Totals.....	244	15	21	13	20	13	19	22	27	32	18	22	22	...
	Males.....	125	8	14	5	8	7	13	15	12	15	9	10	9	...
	Females...	119	7	7	8	12	6	6	7	15	17	9	12	13	...
Oakland.....	Totals.....	595	38	46	34	49	43	42	49	58	69	61	49	55	2
	Males.....	314	22	24	11	23	29	27	24	29	36	43	21	24	1
	Females...	281	16	22	23	26	14	15	25	29	33	18	28	31	1

TABLE 4.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

Counties.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Oceana.....	Totals.....	326	28	17	29	27	33	27	23	41	23	22	25	26	.....
	Males.....	180	12	11	16	16	18	12	14	24	18	14	11	14	.....
	Females...	146	16	6	13	11	15	15	9	17	10	8	14	12	.....
Ogemaw.....	Totals.....	76	4	4	4	11	8	10	5	10	8	5	4	3	.....
	Males.....	32	2	1	1	5	2	6	1	7	2	2	3	.....	.....
	Females...	44	2	3	3	6	6	4	4	3	6	3	1	3	.....
Ontonagon.....	Totals.....	77	8	2	12	6	7	5	3	6	8	6	4	10	.....
	Males.....	37	3	1	5	3	3	2	2	3	5	5	1	4	.....
	Females...	40	5	1	7	3	4	3	1	3	3	1	3	6	.....
Osceola.....	Totals.....	354	20	15	22	31	41	35	36	34	41	31	19	29	.....
	Males.....	194	11	8	11	16	23	19	20	20	20	17	14	15	.....
	Females...	160	9	7	11	15	18	16	16	14	21	14	5	14	.....
Oscoda.....	Totals.....	37	1	.....	3	3	6	1	8	5	4	2	1	3	.....
	Males.....	18	1	.....	1	1	3	1	4	2	2	1	.....	2	.....
	Females...	19	.....	.....	2	2	3	.....	4	3	2	1	1	1	.....
Otsego.....	Totals.....	102	2	4	8	10	14	12	9	7	6	9	9	12	.....
	Males.....	61	2	1	4	6	9	8	6	2	4	4	7	8	.....
	Females...	41	.....	3	4	4	5	4	3	5	2	5	2	4	.....
Ottawa.....	Totals.....	838	54	68	72	65	68	75	73	70	82	65	81	65	.....
	Males.....	436	32	37	40	30	33	38	44	32	41	33	48	28	.....
	Females...	389	20	30	28	33	34	37	27	38	41	32	33	36	.....
	Unknown..	13	2	1	4	2	1	.....	2	.....	.....	.....	.....	1	.....
Presque Isle...	Totals.....	174	8	9	17	27	8	14	14	10	24	17	13	13	.....
	Males.....	96	6	4	6	14	4	6	10	6	12	12	8	8	.....
	Females...	78	2	5	11	13	4	8	4	4	12	5	5	5	.....
Roscommon...	Totals.....	19	.....	.....	4	2	2	1	2	1	1	2	1	3	.....
	Males.....	8	.....	.....	2	1	1	.....	.....	1	1	.....	1	1	.....
	Females...	11	.....	.....	2	1	1	1	2	.....	.....	2	.....	2	.....
Saginaw.....	Totals.....	2,080	143	160	193	156	187	187	188	193	180	166	161	166	.....
	Males.....	1,094	70	84	107	79	95	96	103	97	94	87	92	90	.....
	Females...	986	73	76	86	77	92	91	85	96	86	79	69	76	.....
Sanilac.....	Totals.....	812	45	42	71	72	83	60	85	86	85	79	45	59	.....
	Males.....	373	18	19	30	33	42	25	36	38	46	39	20	27	.....
	Females...	436	26	23	41	39	41	35	48	47	39	40	25	32	.....
	Unknown..	3	1	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....

TABLE 4.—CONTINUED.—*Births by Counties, by Months, and by Sex.*

Counties.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Schoolcraft....	Totals.....	82	1	2	3	1	4	5	2	3	2	1	1	4	3
	Males.....	21	1	2	1	—	4	3	—	3	—	1	1	3	2
	Females....	11	—	—	2	1	—	2	2	—	2	—	—	1	1
Shiawassee....	Totals.....	454	26	43	31	27	35	35	34	41	49	51	36	44	2
	Males.....	234	15	25	15	16	18	19	18	21	30	23	13	20	1
	Females....	220	11	18	16	11	17	16	16	20	19	28	23	24	1
St. Clair.....	Totals.....	1,140	74	79	74	100	117	84	94	99	94	113	115	93	4
	Males.....	591	32	50	37	59	51	45	55	50	49	62	58	41	2
	Females....	548	42	29	37	41	66	39	39	49	44	51	57	52	2
St. Joseph....	Unknown..	1	—	—	—	—	—	—	—	—	1	—	—	—	—
	Totals.....	376	23	33	32	39	25	29	36	32	27	29	32	39	—
	Males.....	186	12	17	18	17	9	16	14	17	14	16	18	18	—
Tuscola.....	Females....	189	11	16	13	22	16	13	22	15	13	13	14	21	—
	Unknown..	1	—	—	1	—	—	—	—	—	—	—	—	—	—
	Totals.....	639	35	35	46	61	53	52	65	63	71	62	44	51	1
Van Buren....	Males.....	341	22	19	26	39	34	35	33	26	30	30	21	26	—
	Females....	296	13	16	19	22	19	17	32	36	41	32	23	25	1
	Unknown..	2	—	—	1	—	—	—	—	1	—	—	—	—	—
Washtenaw...	Totals.....	509	25	28	43	46	49	35	52	46	49	48	44	44	—
	Males.....	281	13	17	22	27	25	20	25	23	28	31	25	25	—
	Females....	228	12	11	21	19	24	15	27	23	21	17	19	19	—
Wayne.....	Totals.....	729	45	55	59	49	54	69	62	67	62	86	57	64	—
	Males.....	348	19	28	35	24	22	38	34	32	34	31	28	23	—
	Females....	381	26	27	24	25	32	31	28	35	28	55	29	41	—
Wexford.....	Totals.....	6,561	518	516	565	544	528	481	476	552	539	557	553	682	—
	Males.....	3,454	260	273	297	294	278	249	257	278	305	303	288	372	—
	Females....	3,106	258	242	268	250	250	232	219	273	234	254	265	310	—
Wexford.....	Unknown..	2	—	1	—	—	—	—	—	1	—	—	—	—	—
	Totals.....	257	15	15	20	34	19	21	27	28	30	23	12	13	—
	Males.....	135	7	8	12	18	10	11	15	13	20	5	8	8	—
	Females....	122	8	7	8	16	9	10	12	15	10	18	4	5	—

Table 5 presents some interesting statistics concerning the birth-rate among the different races. It is not as valuable as last year owing to the fact that the population of the State for 1885 cannot be ascertained, and the population of 1884 must be used as a basis for calculations. By removing the decimal point one place to the right, it shows the birth-rate to each thousand inhabitants among each race or color. There were, therefore, 22.8 births to each thousand among the white and also among the black, 12.8 among the mulatto, 18.2 among the Indians, and 17.3 among the black and mulatto combined.

The most noteworthy feature of the table is the increased birth-rate among the black, it being nearly equal to that of the white inhabitants. The males predominate in each race except among the mulatto, and the largest excess of males appears for the Indians.

The facts set forth in Table 6 are worthy of careful study. By this table, the birth-rate in each county of the State may be compared with the birth-rate for the entire State, the difference in the birth-rates of the various counties and the difference in the proportion of the sexes may also be noted. The number of births in 1885 was 2.28 per cent of the number of inhabitants in 1884, the number of male births in 1885 was 2.18 per cent of the male inhabitants, and the number of female births was 2.32 per cent of the female inhabitants. The counties having the highest birth-rates for the year 1885, according to the returns, were Alpena, Baraga, Bay, Cheboygan, Houghton, Huron, Manistee, Marquette, Menominee, Missaukee, and Wayne. The counties showing a birth-rate considerably less than that of the State as a whole were Barry, Branch, Calhoun, Hillsdale, Lenawee, Livingston, Oakland, and St. Joseph.

TABLE 5.—*Exhibiting by Color and Sex, the Population of Michigan, June 1, 1884, the number of Births returned for the year 1885, the Per Cent of Births to Population, and the Per Cent of Births of each Sex to the total of both Sexes (still-births included).*

Race or Color.	Sex.	Population, June 1, 1884. Represented by Births in 1885.	Children Born in 1885.	Per Cent of Births of each Color to Total of all Colors, by Sex.	Per Cent of Children Born to Inhabitants.	Per Cent of each Sex to Children of Both Sexes.	Inhabitants to one Child born, by Color and Sex.
All colors.....	Totals....	* 1,851,128	42,119	100.00	2.28	-----	43.95
	Males.....	972,960	21,690	100.00	2.23	51.57	44.86
	Females..	877,962	20,366	100.00	2.32	48.43	43.11
	Unknown	206	63	100.00	-----	-----	-----
White	Totals....	1,828,057	41,731	99.08	2.28	-----	43.81
	Males	960,965	21,497	99.11	2.24	51.59	44.70
	Females..	867,082	20,173	99.05	2.33	48.41	42.96
	Unknown	10	61	96.83	-----	-----	-----
Black	Totals....	6,856	156	.37	2.28	-----	43.95
	Males.....	3,692	80	.37	2.17	51.28	46.15
	Females..	3,164	76	.37	2.40	48.72	41.63
Mulatto.....	Totals....	8,256	106	.25	1.28	-----	77.89
	Males.....	4,207	46	.21	1.09	43.40	91.46
	Females..	4,049	60	.30	1.48	56.60	67.48
Indian	Totals....	6,804	124	.30	1.82	-----	54.87
	Males.....	3,525	67	.31	1.90	54.03	52.61
	Females..	3,279	57	.28	1.74	45.97	57.53
Unknown color.....	Totals....	1,085	2	-----	.18	-----	-----
	Males.....	501	-----	-----	-----	-----	-----
	Females..	388	-----	-----	-----	-----	-----
	Unknown	196	2	3.17	-----	-----	-----
Black and Mulatto.	Totals....	15,112	262	.62	1.73	-----	57.68
	Males.....	7,899	126	.58	1.60	48.09	62.61
	Females..	7,213	136	.67	1.89	51.91	53.03

* Includes 70 Asiatic males.

TABLE 6.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Population in 1884, the Per Cent of Births in 1885 to Population, the Number of Males to 100 Females born during the year 1885, and, by sex and color, the Births returned for 1885 (still-births included).*

State and Counties.	Births, Males to 100 Females.	Sex.	Per Cent of Births of each Sex to Total of both Sexes.	Population in 1884 Represented by Births in 1885.	Per Cent of Births of each Sex to Population of same Sex.	Color,—Children Born in 1885.					
						Total of all Colors.	White.	Black.	Mu-latto.	In-dian.	Unk.
State.....	107	Total.....	-----	1,851,128	2.28	42,119	41,731	156	106	124	2
		Males.....	51.57	972,900	2.13	21,690	21,497	80	46	67	-----
		Females...	48.43	877,962	2.32	20,366	20,173	76	60	57	-----
		Unknown.....	-----	206	-----	63	61	-----	-----	-----	2
Alcona.....	103	Total.....	-----	4,028	1.66	67	67	-----	-----	-----	-----
		Males.....	50.75	2,428	1.40	34	34	-----	-----	-----	-----
		Females...	49.25	1,600	2.06	33	33	-----	-----	-----	-----
Alger *.....	33	Total.....	-----	-----	-----	7	6	-----	-----	1	-----
		Males.....	25.00	-----	-----	1	1	-----	-----	-----	-----
		Females...	75.00	-----	-----	3	2	-----	-----	1	-----
		Unknown.....	-----	-----	-----	3	3	-----	-----	-----	-----
Allegan.....	102	Total.....	-----	38,666	2.24	865	854	3	3	5	-----
		Males.....	50.40	20,052	2.17	436	430	2	-----	4	-----
		Females...	49.60	18,614	2.30	429	424	1	3	1	-----
Alpena.....	95	Total.....	-----	12,683	3.15	400	400	-----	-----	-----	-----
		Males.....	48.75	6,990	2.79	195	195	-----	-----	-----	-----
		Females...	51.25	5,693	3.60	205	205	-----	-----	-----	-----
Antrim.....	119	Total.....	-----	8,781	2.04	179	179	-----	-----	-----	-----
		Males.....	54.24	4,736	2.03	96	96	-----	-----	-----	-----
		Females...	45.76	4,025	2.01	81	81	-----	-----	-----	-----
		Unknown.....	-----	-----	-----	2	2	-----	-----	-----	-----
Arenac.....	150	Total.....	-----	4,027	2.98	120	120	-----	-----	-----	-----
		Males.....	60.00	2,319	3.10	72	72	-----	-----	-----	-----
		Females...	40.00	1,708	2.81	48	48	-----	-----	-----	-----
Baraga.....	110	Total.....	-----	3,039	3.46	105	86	-----	-----	19	-----
		Males.....	52.38	1,819	3.02	55	42	-----	-----	13	-----
		Females...	47.62	1,220	4.10	50	44	-----	-----	6	-----
Barry.....	108	Total.....	-----	24,102	1.56	375	375	-----	-----	-----	-----
		Males.....	52.00	12,507	1.56	195	195	-----	-----	-----	-----
		Females...	48.00	11,595	1.53	180	180	-----	-----	-----	-----

* Organized since census was taken.

VITAL STATISTICS OF MICHIGAN, 1885.

TABLE 6.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

Counties.	Births—Males to 100 Females.	Sex.	Per Cent of Births of each Sex to Total of Both Sexes.	Population in 1884 Represented by Births in 1885.	Per Cent of Births of each Sex to Population of same Sex.	Color,—Children Born in 1885.					
						Total of all Colors.	White.	Black.	Mu-latto.	In-dian.	Unk.
Bay	107	Total .....	.....	51,221	3.26	1,671	1,665	1	5	.....	.....
		Males	51.71	28,215	3.06	864	861	1	2	.....	.....
		Females	48.29	23,006	3.51	807	804	.....	3	.....	.....
Benzie	100	Total .....	.....	4,389	2.60	114	110	1	3	.....	.....
		Males	50.00	2,349	2.43	57	55	1	1	.....	.....
		Females	50.00	2,040	2.79	57	55	.....	2	.....	.....
Berrien.....	95	Total .....	.....	47,776	1.82	687	677	7	3	.....	.....
		Males	48.83	19,225	1.74	334	330	3	1	.....	.....
		Females	51.17	18,551	1.80	350	344	4	2	.....	.....
		Unknown .....	.....	.....	.....	3	3	.....	.....	.....	.....
Branch	97	Total .....	.....	27,661	1.41	391	391	.....	.....	.....	.....
		Males	49.36	14,042	1.37	193	193	.....	.....	.....	.....
		Females	50.64	13,619	1.45	198	198	.....	.....	.....	.....
Calhoun	94	Total .....	.....	41,585	1.49	621	611	1	9	.....	.....
		Males	48.62	21,297	1.40	299	297	.....	2	.....	.....
		Females	51.38	20,285	1.56	316	308	1	7	.....	.....
		Unknown .....	.....	3	.....	6	6	.....	.....	.....	.....
Cass	106	Total .....	.....	21,202	1.65	349	311	16	21	1	.....
		Males	51.44	10,886	1.64	179	163	9	7	.....	.....
		Females	48.56	10,316	1.64	169	147	7	14	1	.....
		Unknown .....	.....	.....	.....	1	1	.....	.....	.....	.....
Charlevoix	124	Total .....	.....	9,275	1.93	179	177	.....	1	1	.....
		Males	55.81	5,030	1.97	99	98	.....	1	.....	.....
		Females	44.69	4,245	1.88	80	79	.....	.....	1	.....
Cheboygan	115	Total .....	.....	9,948	3.52	350	349	.....	.....	1	.....
		Males	53.43	5,503	3.40	187	186	.....	.....	1	.....
		Females	46.57	4,443	3.67	163	163	.....	.....	.....	.....
Chippewa	93	Total .....	.....	8,422	2.29	193	184	1	.....	8	.....
		Males	48.19	4,746	1.96	93	88	.....	.....	5	.....
		Females	51.81	3,676	2.72	100	96	1	.....	3	.....
Clare.....	108	Total .....	.....	5,549	2.25	125	125	.....	.....	.....	.....
		Males	52.00	3,251	2.00	65	65	.....	.....	.....	.....
		Females	48.00	2,298	2.61	60	60	.....	.....	.....	.....

TABLE 6.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

Counties.	Births.—Males to 100 Females.	Sex.	Per Cent of Births of each Sex to Total of Both Sexes.	Population in 1884 Represented by Births in 1885.	Per Cent of Births of each Sex to Population of same Sex.	Color,—Children Born in 1885.					
						Total of all Colors.	White.	Black.	Mu-latto.	In-dian.	Unk.
Clinton.....	88	Total.....	.....	27,135	1.81	492	491	.....	1	.....	.....
		Males.....	46.82	14,034	1.62	228	227	.....	1	.....	.....
		Females...	53.18	13,101	1.98	259	259	.....	.....	.....	.....
		Unknown.....	.....	.....	.....	5	5	.....	.....	.....	.....
Crawford.....	115	Total.....	.....	2,030	2.12	43	43	.....	.....	.....	.....
		Males.....	53.49	1,132	1.95	23	23	.....	.....	.....	.....
		Females...	46.51	848	2.36	20	20	.....	.....	.....	.....
Delta.....	86	Total.....	.....	9,992	2.33	233	233	.....	.....	.....	.....
		Males.....	46.35	5,876	1.84	108	108	.....	.....	.....	.....
		Females...	53.65	4,116	3.04	125	125	.....	.....	.....	.....
Eaton.....	92	Total.....	.....	31,802	1.86	590	589	.....	1	.....	.....
		Males.....	47.80	16,210	1.74	282	281	.....	1	.....	.....
		Females...	52.20	15,592	1.98	308	308	.....	.....	.....	.....
Emmet.....	98	Total.....	.....	7,944	1.49	118	93	.....	1	24	.....
		Males.....	49.57	4,005	1.42	58	45	.....	1	12	.....
		Females...	50.43	3,849	1.53	59	47	.....	.....	12	.....
		Unknown.....	.....	.....	.....	1	1	.....	.....	.....	.....
Genesee.....	111	Total.....	.....	38,776	1.65	639	634	1	4	.....	.....
		Males.....	52.51	19,782	1.69	335	332	.....	3	.....	.....
		Females...	47.49	18,994	1.60	303	301	1	1	.....	.....
		Unknown.....	.....	.....	.....	1	1	.....	.....	.....	.....
Gladwin.....	89	Total.....	.....	1,539	2.34	36	36	.....	.....	.....	.....
		Males.....	47.22	899	1.89	17	17	.....	.....	.....	.....
		Females...	52.78	640	2.97	19	19	.....	.....	.....	.....
Grand Traverse	107	Total.....	.....	12,002	2.00	242	242	.....	.....	.....	.....
		Males.....	51.65	6,522	1.92	125	125	.....	.....	.....	.....
		Females...	48.35	5,570	2.10	117	117	.....	.....	.....	.....
Gratiot.....	105	Total.....	.....	25,049	2.01	504	502	.....	2	.....	.....
		Males.....	51.20	13,204	1.95	257	257	.....	.....	.....	.....
		Females...	48.80	11,845	2.07	245	243	.....	2	.....	.....
Hillsdale.....	84	Total.....	.....	31,686	1.10	318	348	.....	.....	.....	.....
		Males.....	45.69	15,911	1.00	159	159	.....	.....	.....	.....
		Females...	54.31	15,775	1.20	189	189	.....	.....	.....	.....
Houghton.....	116	Total.....	.....	26,146	3.34	1,003	1,003	.....	.....	.....	.....
		Males.....	53.74	14,168	3.80	539	539	.....	.....	.....	.....
		Females...	46.26	11,978	3.87	464	464	.....	.....	.....	.....

TABLE 6.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

Counties.	Births, Males to 100 Females.	Sex.	Per Cent of Births of each Sex to Total of Both Sexes.	Population in 1884 Represented by Births in 1885.	Per Cent of Births of each Sex to Population of same Sex.	Color,—Children Born in 1885.					
						Total of all Colors.	White.	Black.	Mu-latto.	In-dian.	Unk.
Huron.....	108	Total.....	.....	24,521	3.02	741	741	.....	.....	.....	.....
		Males.....	52.08	12,934	2.98	385	385	.....	.....	.....	.....
		Females...	47.97	11,585	3.06	355	355	.....	.....	.....	.....
		Unknown.....	.....	2	.....	1	1	.....	.....	.....	.....
Ingham.....	97	Total.....	.....	34,939	1.67	582	577	2	3	.....	.....
		Males.....	49.14	17,917	1.59	285	281	1	3	.....	.....
		Females...	50.86	17,022	1.73	295	294	1	.....	.....	.....
		Unknown.....	.....	.....	.....	2	2	.....	.....	.....	.....
Ionia.....	114	Total.....	.....	32,559	1.62	528	528	.....	.....	.....	.....
		Males.....	53.22	17,057	1.65	281	281	.....	.....	.....	.....
		Females...	46.78	15,502	1.59	247	247	.....	.....	.....	.....
Iosco.....	109	Total.....	.....	10,602	2.24	238	233	.....	.....	.....	.....
		Males.....	52.10	6,060	2.05	124	124	.....	.....	.....	.....
		Females...	47.90	4,542	2.51	114	114	.....	.....	.....	.....
Iron.....	104	Total.....	.....	.....	.....	107	107	.....	.....	.....	.....
		Males.....	50.96	.....	.....	53	53	.....	.....	.....	.....
		Females...	49.04	.....	.....	51	51	.....	.....	.....	.....
		Unknown.....	.....	.....	.....	3	3	.....	.....	.....	.....
Isabella.....	112	Total.....	.....	16,011	2.77	444	422	.....	2	20	.....
		Males.....	52.93	8,597	2.73	235	225	.....	.....	10	.....
		Females...	47.07	7,414	2.82	209	197	.....	2	10	.....
Jackson.....	109	Total.....	.....	45,232	1.74	786	777	8	1	.....	.....
		Males.....	52.16	23,385	1.75	410	407	3	.....	.....	.....
		Females...	47.81	21,847	1.72	376	370	5	1	.....	.....
Kalamazoo.....	111	Total.....	.....	35,281	1.70	601	590	6	5	.....	.....
		Males.....	52.58	17,875	1.77	316	312	1	3	.....	.....
		Females...	47.42	17,403	1.64	285	278	5	2	.....	.....
Kalkaska.....	124	Total.....	.....	4,493	2.47	111	111	.....	.....	.....	.....
		Males.....	55.45	2,470	2.47	61	61	.....	.....	.....	.....
		Females...	44.55	2,023	2.42	49	49	.....	.....	.....	.....
		Unknown.....	.....	.....	.....	1	1	.....	.....	.....	.....
Kent.....	105	Total.....	.....	84,600	2.33	1,968	1,954	11	3	.....	.....
		Males.....	51.30	43,467	2.32	1,009	1,003	5	1	.....	.....
		Females...	48.70	41,133	2.33	958	950	6	2	.....	.....
		Unknown.....	.....	.....	.....	1	1	.....	.....	.....	.....

* Organized since census was taken.

29

[illegible]

TABLE 6.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

Counties.	Births—Males to 100 Females.	Sex.	Per Cent of Births of each Sex to Total of Both Sexes.	Population in 1884 Represented by Births in 1885.	Per Cent of Births of each Sex to Population of same Sex.	Color,—Children Born in 1885.					
						Total of all Colors.	White.	Black.	Mu-latto.	In-dian.	Unk.
Marquette	100	Total		31,397	3.13	982	982				
		Males	50.10	17,580	2.80	492	492				
		Females.....	49.90	13,817	3.55	490	490				
Mason.....	111	Total		12,924	2.76	357	354	1		2	
		Males	52.06	7,062	2.66	188	185	1		2	
		Females.....	47.34	5,862	2.88	169	169				
Mecosta.....	100	Total		20,303	2.03	413	412		1		
		Males	50.12	11,109	1.86	207	207				
		Females.....	49.83	9,194	2.24	206	205		1		
Menominee.....	95	Total		19,120	3.10	592	592				
		Males	48.73	11,488	2.50	287	287				
		Females.....	51.27	7,632	3.96	302	302				
		Unknown.....				3	3				
Midland.....	112	Total		8,776	2.76	242	240	2			
		Males	52.89	4,728	2.71	128	127	1			
		Females.....	47.11	4,048	2.82	114	113	1			
Missaukee.....	118	Total		3,386	3.16	107	105			2	
		Males	54.21	2,036	2.85	58	58				
		Females.....	45.79	1,350	3.63	49	47			2	
Monroe.....	106	Total		33,353	2.28	759	759				
		Males	51.38	17,186	2.27	390	390				
		Females.....	48.62	16,167	2.28	369	369				
Montcalm.....	92	Total		35,356	1.69	596	594		2		
		Males	47.82	18,774	1.52	285	284		1		
		Females.....	52.18	16,581	1.88	311	310		1		
		Unknown.....		1							
Montmorency..	100	Total		845	4.26	36	36				
		Males	50.00	494	3.64	18	18				
		Females.....	50.00	351	5.13	18	18				
Muskegon.....	108	Total		37,554	2.56	960	958		2		
		Males	51.82	20,522	2.42	497	497				
		Females.....	48.18	17,029	2.71	462	460		2		
		Unknown.....		3		1	1				
Newaygo.....	105	Total		18,996	1.28	244	244				
		Males	51.23	10,684	1.17	125	125				
		Females.....	48.77	8,312	1.43	119	119				

TABLE 6.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

Counties.	Births—Males to 100 Females.	Sex.	Per Cent of Births of each Sex to Total of both Sexes.	Population in 1884 Represented by Births in 1885.	Per Cent of Births of each Sex to Population of same Sex.	Color,—Children Born in 1885.					
						Total of all Colors.	White.	Black.	Mu-latto.	In-dian.	Unk.
Oakland	112	Total .....	.....	41,100	1.45	595	593	2	.....	.....	.....
		Males	52.77	20,821	1.51	314	313	1	.....	.....	.....
		Females...	47.23	20,279	1.39	281	280	1	.....	.....	.....
Oceana.....	123	Total .....	.....	14,519	2.24	326	319	.....	1	6	.....
		Males	55.21	7,859	2.29	180	176	.....	1	3	.....
		Females...	44.79	6,660	2.19	146	143	.....	.....	3	.....
Ogemaw	73	Total .....	.....	3,637	2.09	76	76	.....	.....	.....	.....
		Males.....	42.11	2,041	1.57	32	32	.....	.....	.....	.....
		Females...	57.89	1,596	2.76	44	44	.....	.....	.....	.....
Ontonagon.....	93	Total .....	.....	4,836	1.59	77	72	.....	1	4	.....
		Males.....	48.05	3,329	1.11	37	35	.....	.....	2	.....
		Females...	51.95	1,507	2.65	40	37	.....	1	2	.....
Osceola.....	121	Total .....	.....	14,001	2.53	354	352	1	.....	1	.....
		Males.....	54.80	7,533	2.58	194	192	1	.....	1	.....
		Females...	45.20	6,468	2.47	160	160	.....	.....	.....	.....
Oscoda	95	Total .....	.....	1,374	2.69	37	37	.....	.....	.....	.....
		Males.....	48.65	798	2.28	18	18	.....	.....	.....	.....
		Females...	51.35	576	3.30	19	19	.....	.....	.....	.....
Otsego.....	149	Total .....	.....	3,705	2.75	102	102	.....	.....	.....	.....
		Males	59.80	2,113	2.89	61	61	.....	.....	.....	.....
		Females...	40.20	1,592	2.58	41	41	.....	.....	.....	.....
Ottawa	112	Total .....	.....	36,225	2.31	838	838	.....	.....	.....	.....
		Males	52.85	18,970	2.30	436	436	.....	.....	.....	.....
		Females...	47.15	17,255	2.25	399	399	.....	.....	.....	.....
		Unknown .....	.....	.....	.....	13	13	.....	.....	.....	.....
Presque Isle.....	123	Total .....	.....	4,064	4.28	174	174	.....	.....	.....	.....
		Males.....	55.17	2,168	4.43	96	96	.....	.....	.....	.....
		Females...	44.83	1,896	4.11	78	78	.....	.....	.....	.....
Roscommon	73	Total .....	.....	1,737	1.09	19	19	.....	.....	.....	.....
		Males.....	42.11	1,305	.61	8	8	.....	.....	.....	.....
		Females...	57.89	432	2.55	11	11	.....	.....	.....	.....
Saginaw	111	Total .....	.....	74,795	2.78	2,080	2,077	1	.....	2	.....
		Males.....	52.60	41,588	2.63	1,094	1,094	.....	.....	.....	.....
		Females...	47.40	33,207	2.97	986	983	1	.....	2	.....

VITAL STATISTICS OF MICHIGAN, 1885.

TABLE 6.—CONTINUED.—*Births by Counties, by Sex, and by Color.*

Counties.	Births—Males to 100 Females.	Sex.	Per Cent of Births of each Sex to Total of both Sexes.	Population in 1884 Represented by Births in 1885.	Per Cent of Births of each Sex to Population of same Sex.	Color,—Children Born in 1885.					
						Total of all Colors.	White.	Black.	Mu-latto.	In-dian.	Unk.
Sanilac.....	86	Total.....	.....	29,583	2.74	812	812	.....	.....	.....
		Males.....	43.11	15,578	2.39	373	373	.....	.....	.....
		Females...	53.89	14,005	3.11	436	436	.....	.....	.....
		Unknown.....	.....	.....	.....	3	3	.....	.....	.....
Schoolcraft.....	191	Total.....	.....	3,523	.91	32	32	.....	.....	.....
		Males.....	65.63	2,361	.89	21	21	.....	.....	.....
		Females...	34.37	1,162	.95	11	11	.....	.....	.....
Shiawassee.....	106	Total.....	.....	28,078	1.62	454	454	.....	.....	.....
		Males.....	51.54	14,731	1.59	234	234	.....	.....	.....
		Females...	48.46	13,347	1.65	220	220	.....	.....	.....
St. Clair.....	108	Total.....	.....	46,783	2.44	1,140	1,140	.....	.....	.....
		Males.....	51.89	24,058	2.46	591	591	.....	.....	.....
		Females...	48.11	22,723	2.41	548	548	.....	.....	.....
		Unknown.....	.....	2	.....	1	1	.....	.....	Unk.	
St. Joseph.....	98	Total.....	.....	26,277	1.43	376	373	.....	1	1	1
		Males.....	49.60	13,295	1.40	186	185	.....	1	.....	.....
		Females...	50.40	12,982	1.46	189	188	.....	.....	1	.....
		Unknown.....	.....	.....	.....	1	.....	.....	.....	.....	1
Tuscola.....	115	Total.....	.....	30,728	2.08	639	636	.....	2	.....	1
		Males.....	53.53	16,126	2.11	341	340	.....	1	.....	.....
		Females...	46.47	14,600	2.03	296	295	.....	1	.....	.....
		Unknown.....	.....	.....	.....	2	1	.....	.....	.....	1
Van Buren.....	123	Total.....	.....	30,341	1.68	509	497	6	5	1	.....
		Males.....	55.21	15,377	1.83	281	272	4	4	1	.....
		Females...	44.79	14,964	1.52	228	225	2	1	.....	.....
Washtenaw.....	91	Total.....	.....	41,694	1.75	729	719	8	2	.....	.....
		Males.....	47.74	21,067	1.65	348	343	4	1	.....	.....
		Females...	52.26	20,627	1.85	381	376	4	1	.....	.....
Wayne.....	111	Total.....	.....	188,966	3.47	6,561	6,469	73	19	.....	.....
		Males.....	52.66	94,492	3.66	3,454	3,406	38	8	.....	.....
		Females...	47.34	94,474	3.29	3,105	3,059	35	11	.....	.....
		Unknown.....	.....	.....	.....	2	2	.....	.....	.....	.....
Wexford.....	111	Total.....	.....	10,313	2.49	257	257	.....	.....	.....	.....
		Males.....	52.53	5,636	2.40	135	135	.....	.....	.....	.....
		Females...	47.47	4,677	2.61	122	122	.....	.....	.....	.....

PARENT-NATIVITY.

The parent-nativity of the children, returned as having been born in Michigan during the year 1885, will be found in Table 7. The number of children born of native-born parents, in 1885, was 42.26 per cent of the whole number, while the per cent of births of foreign-born parents was 36.97 of the whole number. The births of native parentage are less in proportion to the whole number than in any year since 1870, while the births of foreign parentage are greater than in any year of this period. The average per cent of children born of native-born parents for the fifteen years 1870-1884 was 45.12, and that for 1885 was only 42.26, a decrease of 2.86 per cent. The average per cent of children born of foreign-born parents for these years was 34.38, and the per cent for 1885 was 36.97, an increase of 2.59 per cent. The increase in the proportion of children born of mixed parentage during these years is also quite marked, being 12.79 in 1871 and 18.11 in 1885. The average per cent for the period was 16.08.

TABLE 7.—*Showing, by Sex, the Parent-nativity of Children born in Michigan during the year 1885, according to the returns.*

Nativity of Parents of Children Born, 1885.	Total Births,—1885.							
	Number.				Per Cent of Total.			
	Totals.	Males.	Females	Unk.	Totals.	Males.	Females	Unk.
All nativities.....	42,119	21,690	20,366	63	100.00	100.00	100.00	100.00
Both parents native-born	17,800	9,109	8,666	25	42.26	42.00	42.55	39.68
Both parents foreign-born.....	15,572	8,144	7,411	17	36.97	37.55	36.39	26.98
Foreign father and native mother.....	4,896	2,514	2,378	4	11.62	11.59	11.68	6.85
Foreign mother and native father.....	2,734	1,358	1,368	8	6.49	6.26	6.72	12.70
Unknown mother, father native.....	99	56	43	.....	.24	.26	.21	.....
Unknown mother, father foreign.....	52	25	27	.....	.12	.12	.13	.....
Unknown father, mother native.....	141	59	80	2	.34	.27	.39	3.18
Unknown father, mother foreign.....	80	36	44	.....	.19	.16	.22	.....
Both unknown.....	745	389	349	7	1.77	1.79	1.71	11.11
One or both native.....	25,670	13,096	12,535	39	60.95	60.38	61.55	61.90
One or both foreign.....	23,334	12,077	11,228	29	55.40	55.68	55.13	46.08

In Table 8, the results given in Table 7 may be compared with those for the years 1883, 1884, and the average for ten years 1875-1884. It will be noticed that in the foreign and in both classes of mixed parentage the percentage for 1885 is greater than the average for ten years, while the percentage for the native is considerably less. It is worthy of note that the proportion of births, whose parent nativity was not given in the returns, is decreasing.

TABLE 8.—*Parent-Nativity of Children born in Michigan for each of the Years 1883-1885, and the Average for Ten Years 1875-1884.*

Nativity of Parents of Children Born.	1883.		1884.		1885.		Av. for 10 Years, 1875-1884.	
	Number.	Per Cent of Total.	Number.	Per Cent of Total.	Number.	Per Cent of Total.	Number.	Per Cent of Total.
All nativities.....	40,809	100.00	40,408	100.00	42,119	100.00	35,719	100.00
Both native-born.....	17,810	43.64	17,399	43.06	17,800	42.26	16,079	45.02
Both foreign-born.....	14,716	36.06	14,696	36.37	15,572	36.97	12,407	34.73
Foreign father and native mother.....	4,566	11.19	4,612	11.41	4,896	11.63	3,986	11.16
Foreign mother and native father.....	2,532	6.21	2,620	6.48	2,734	6.49	2,104	5.89
One or both unknown.....	1,185	2.90	1,081	2.68	1,117	2.65	1,143	3.20
One or both parents native.....*	24,908	61.04	24,631	60.95	25,430	60.38	22,169	62.07
One or both parents foreign.....*	21,814	53.45	21,928	54.27	23,202	55.09	18,497	51.78
Father.....								
{ Native.....	20,526	50.30	20,084	49.70	20,633	48.99	18,377	51.45
{ Foreign.....	19,387	47.51	19,335	47.85	20,520	48.72	16,539	46.30
{ Unknown.....	896	2.19	989	2.45	966	2.29	803	2.25
Mother.....								
{ Native.....	22,587	55.35	22,159	54.84	22,837	54.22	20,269	56.71
{ Foreign.....	17,345	42.50	17,389	43.03	18,386	43.65	14,601	40.88
{ Unknown.....	877	2.15	860	2.13	896	2.13	849	2.37

* Excluding cases where nativity of either parent is unknown.

TABLE 9.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Parent-nativity of Children returned for the year 1885 (still-births included).*

Nativity of Parents of Children Born,—1885.											
State and Counties.	Sex.	Children Born, 1885.	Both Native Born.	Both Foreign Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unknown.		Father Unknown.		Both Unknown.
							Native.	Foreign.	Father.		
									Native.	Foreign.	
State.	Total.....	42,119	17,800	15,572	4,896	2,734	99	52	141	80	745
	Males.....	21,600	9,109	8,144	2,514	1,358	56	25	59	36	389
	Females.....	20,506	8,696	7,411	2,378	1,368	43	27	80	44	349
	Unknown.....	63	25	17		8			2		7
Alcona.	Total.....	67	10	41	11	3		1		1	
	Males.....	34	6	21	6	1					
	Females.....	33	4	20	5	2		1		1	
Alger.	Total.....	7	2	4		1					
	Males.....	1		1							
	Females.....	3	1	2							
	Unknown.....	3	1	1		1					
Allegan.	Total.....	865	565	158	81	42	1		2		16
	Males.....	436	280	82	41	20	1				12
	Females.....	429	285	76	40	22			2		4
Alpena.	Total.....	400	35	298	42	25					
	Males.....	195	13	147	22	13					
	Females.....	205	22	151	20	12					
Antrim.	Total.....	179	74	66	20	16	1		1	1	
	Males.....	96	41	34	13	5	1		1	1	
	Females.....	81	32	32	7	10					
	Unknown.....	2	1			1					
Arenac.	Total.....	120	40	46	18	15				1	
	Males.....	72	27	26	11	8					
	Females.....	48	13	20	7	7				1	
Baraga.	Total.....	105	48	35	11	2				1	8
	Males.....	55	29	17	5	1					3
	Females.....	50	19	18	6	1				1	5
Barry.	Total.....	375	305	23	27	13	2		2		3
	Males.....	195	157	10	14	8	2		1		3
	Females.....	180	148	13	13	5			1		

TABLE 9.—CONTINUED.—*Births by Counties, Parent-nativity, and Sex.*

Nativity of Parents of Children Born,—1885.											
Counties.	Sex.	Children Born, 1885.	Both Native Born.	Both Foreign Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unknown.		Father Unknown.		Both Unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Bay.....	Total.....	1,671	314	944	239	168			3		3
	Males.....	864	168	477	127	87			2		3
	Females...	807	146	467	112	81			1		
Benzie.....	Total.....	114	71	22	14	6	1				
	Males.....	57	37	12	5	3					
	Females...	57	34	10	9	3	1				
Berrien.....	Total.....	687	467	109	61	28	4	1	14		3
	Males.....	334	232	49	28	15	3	1	6		
	Females...	350	234	58	33	13	1		8		3
	Unknown..	3	1	2							
Branch.....	Total.....	391	319	23	25	15	2				7
	Males.....	193	159	10	13	4	1				6
	Females...	198	160	13	12	11	1				1
Calhoun.....	Total.....	621	440	81	51	27	3	2	6	2	9
	Males.....	299	227	28	22	13	2	2		1	4
	Females..	316	208	53	28	14	1		6	1	5
	Unknown..	6	5		1						
Cass.....	Total.....	349	290	13	25	11	2	1	4		3
	Males.....	179	150	6	12	5	1		2		3
	Females...	169	139	7	13	6	1	1	2		
	Unknown..	1	1								
Charlevoix.....	Total.....	179	85	55	16	15			1	1	6
	Males.....	99	48	33	9	8					1
	Females...	80	37	22	7	7			1	1	5
Cheboygan.....	Total.....	350	83	175	61	29			2		
	Males.....	187	45	88	38	16					
	Females..	163	38	87	23	13			2		
Chippewa.....	Total.....	198	26	98	16	15		1	1		36
	Males.....	93	15	55	7	10					6
	Females...	100	11	43	9	5		1	1		30
Clare.....	Total.....	125	62	32	13	15				1	2
	Males.....	65	33	14	8	8				1	1
	Females...	60	29	18	5	7					1

TABLE 9.—CONTINUED.—*Births by Counties, Parent-nativity, and Sex.*

Nativity of Parents of Children Born,—1885.											
Counties.	Sex.	Children Born, 1885.	Both Native Born.	Both Foreign Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unknown.		Father Unknown.		Both Unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Clinton.....	Total.....	492	338	61	59	27	1	.....	3	.....	3
	Males.....	228	155	28	31	10	.....	.....	2	.....	2
	Females...	259	178	33	28	17	1	.....	1	.....	1
	Unknown.....	5	5	.....	.....	.....	.....	.....	.....	.....	.....
Crawford.....	Total.....	43	24	8	3	6	1	1	.....	.....	.....
	Males.....	23	10	7	1	3	1	1	.....	.....	.....
	Females...	20	14	1	2	3	.....	.....	.....	.....	.....
Delta.....	Total.....	233	59	95	36	12	.....	1	.....	.....	30
	Males.....	108	25	48	17	6	.....	1	.....	.....	11
	Females...	125	34	47	19	6	.....	.....	.....	.....	19
Eaton.....	Total.....	590	509	24	38	16	1	.....	.....	.....	2
	Males.....	282	247	9	20	5	.....	.....	.....	.....	1
	Females...	308	262	15	18	11	1	.....	.....	.....	1
Emmet.....	Total.....	118	72	26	9	8	.....	.....	.....	1	2
	Males.....	58	31	17	5	4	.....	.....	.....	.....	1
	Females...	59	40	9	4	4	.....	.....	.....	1	1
	Unknown.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Genesee.....	Total.....	639	411	79	92	48	2	.....	3	.....	4
	Males.....	335	218	36	49	26	2	.....	1	.....	3
	Females...	303	193	43	43	22	.....	.....	1	.....	1
	Unknown.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
Gladwin.....	Total.....	36	11	14	8	3	.....	.....	.....	.....	.....
	Males.....	17	4	6	5	2	.....	.....	.....	.....	.....
	Females...	19	7	8	3	1	.....	.....	.....	.....	.....
G'd Traverse.....	Total.....	242	125	62	33	18	.....	.....	2	1	1
	Males.....	125	63	31	18	10	.....	.....	1	1	1
	Females...	117	62	31	15	8	.....	.....	1	.....	.....
Gratiot.....	Total.....	504	379	33	51	35	2	.....	2	.....	2
	Males.....	257	201	13	23	15	2	.....	1	.....	2
	Females...	245	177	20	28	19	.....	.....	1	.....	.....
	Unknown.....	2	1	.....	.....	1	.....	.....	.....	.....	.....
Hillsdale.....	Total.....	348	320	5	12	5	2	1	1	.....	2
	Males.....	159	150	4	3	.....	.....	1	1	.....	.....
	Females...	189	170	1	9	5	2	.....	.....	.....	2

TABLE 9.—CONTINUED.—*Births by Counties, Parent-nativity, and Sex.*

Counties.	Sex.	Children Born, 1885.	Nativity of Parents of Children Born,—1885.								Both Unknown.
			Both Native Born.	Both Foreign Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unknown.		Father Unknown.		
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Manitou.....	Total.....	81	6	16	5	3					1
	Males.....	17	3	8	3	2					1
	Females.....	14	3	8	2	1					
Marquette.....	Total.....	982	77	758	106	38			2	1	
	Males.....	492	30	384	58	19			1		
	Females.....	490	47	374	48	19			1	1	
Mason.....	Total.....	357	127	166	35	22	1		1	2	3
	Males.....	188	65	87	18	14			1	1	2
	Females.....	169	62	79	17	8	1			1	1
Mecosta.....	Total.....	413	198	119	66	23			3		4
	Males.....	207	95	64	33	13			1		1
	Females.....	206	103	55	33	10			2		3
Menominee.....	Total.....	592	81	424	43	23	1	1	5	1	13
	Males.....	287	32	212	23	11	1		2		6
	Females.....	302	48	210	20	12		1	3	1	7
	Unknown.....	3	1	2							
Midland.....	Total.....	242	108	77	33	22			1	1	
	Males.....	128	62	36	19	10			1		
	Females.....	114	46	41	14	12				1	
Missaukee.....	Total.....	107	37	49	13	6	1				1
	Males.....	58	20	24	8	5	1				
	Females.....	49	17	25	5	1					1
Monroe.....	Total.....	759	546	80	92	23	2	3	6	1	6
	Males.....	390	271	41	52	13	2	3	2	1	5
	Females.....	369	275	39	40	10			4		1
Montcalm.....	Total.....	596	352	131	53	49	1		4	1	5
	Males.....	285	162	70	27	20			3		3
	Females.....	311	190	61	26	29	1		1	1	2
Montmorency.....	Total.....	36	10	22	4						
	Males.....	18	5	10	3						
	Females.....	18	5	12	1						
Muskegon.....	Total.....	960	270	521	101	60		1	3	1	3
	Males.....	497	130	277	52	33			2	1	2
	Females.....	462	139	244	49	27		1	1		1
	Unknown.....	1	1								

TABLE 9.—CONTINUED.—*Births by Counties, Parent-nativity, and Sex.*

Counties.	Sex.	Children Born, 1885.	Nativity of Parents of Children Born,—1885.								
			Both Native Born.	Both Foreign Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unknown.		Father Unknown.		Both Unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Newaygo.....	Total.....	244	136	60	33	10			3		2
	Males.....	125	64	33	21	6			1		
	Females...	119	72	27	12	4			2		2
Oakland.....	Total.....	595	368	84	66	42			1		34
	Males.....	314	190	40	40	20			1		23
	Females...	281	178	44	26	22					11
Oceana.....	Total.....	326	197	60	37	30			2		
	Males.....	180	110	32	20	18					
	Females...	146	87	28	17	12			2		
Ogemaw.....	Total.....	76	29	28	9	8			1	1	
	Males.....	32	11	12	3	5				1	
	Females...	44	18	16	6	3			1		
Ontonagon.....	Total.....	77	25	28	22	2					
	Males.....	37	15	14	8						
	Females...	40	10	14	14	2					
Osceola.....	Total.....	354	165	103	51	24			3	1	7
	Males.....	194	96	54	23	13			2	1	5
	Females...	160	69	49	28	11			1		2
Oscoda.....	Total.....	37	29	1	3	4					
	Males.....	18	14	1	1	2					
	Females...	19	15		2	2					
Otsego.....	Total.....	102	43	39	9	8					3
	Males.....	61	27	24	5	5					
	Females...	41	16	15	4	3					3
Ottawa.....	Total.....	838	268	380	114	59	4	2	5	4	2
	Males.....	436	135	219	50	25	1	1	2	2	1
	Females...	389	132	155	63	30	3	1	3	2	
	Unknown..	13	1	6	1	4					1
Presque Isle..	Total.....	174	11	146	7	8				2	
	Males.....	96	9	80	4	3					
	Females...	78	2	66	3	5				2	
Roscommon..	Total.....	19	3	13	1	2					
	Males.....	8	2	5		1					
	Females...	11	1	8	1	1					

TABLE 9.—CONTINUED.—*Births by Counties, Parent-nativity, and Sex.*

Counties.	Sex.	Children Born, 1885.	Nativity of Parents of Children Born,—1885.								Both Unknown.
			Both Native Born.	Both Foreign Born.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother Unknown.		Father Unknown.		
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Saginaw	Total	2,080	596	384	308	175	1	3	2	6	55
	Males	1,094	306	493	154	98		1		2	40
	Females	986	290	441	154	77	1	2	2	4	15
Sanilac	Total	812	96	486	137	67	10	8	2	2	4
	Males	373	50	228	55	26	6	3	1	1	3
	Females	436	46	257	81	41	4	5	1	1	
Schoolcraft	Unknown	3		1	1						1
	Total	32	8	11	5	1					7
	Males	21	4	8	4	1					4
Shiawassee	Females	11	4	3	1						3
	Total	454	301	67	51	26	2	5	1		1
	Males	234	149	37	32	13	1	2			
St. Clair	Females	220	152	30	19	13	1	3	1		1
	Total	1,140	387	416	187	126	5	5	4	3	7
	Males	591	208	226	88	54	3	4	2	2	4
St. Joseph	Females	548	178	190	99	72	2	1	2	1	3
	Unknown	1	1								
	Total	376	269	55	22	16	5	2	4		3
Tuscola	Males	186	132	28	13	7	2	1	3		
	Females	189	137	27	9	9	3	1	1		2
	Unknown	1									1
Van Buren	Total	639	285	171	93	79	2	3			6
	Males	341	168	78	49	40	1	1			4
	Females	296	116	93	44	38	1	2			2
Washtenaw	Unknown	2	1			1					
	Total	509	406	32	29	17			1	1	21
	Males	81	219	20	17	8			1		16
Wayne	Females	228	189	12	12	9				1	5
	Total	729	377	178	103	58	1				12
	Males	348	177	85	56	24	1				5
Wexford	Females	381	200	93	47	34					7
	Total	6,561	1,718	3,284	771	416	2	1	9	25	386
	Males	3,454	910	1,761	386	219	1		4	9	164
Wexford	Females	3,105	808	1,522	385	197	1	1	5	16	170
	Unknown	2		1							1
	Total	257	136	87	18	12	4				
Wexford	Males	135	72	42	12	6	3				
	Females	122	64	45	6	6	1				

TWIN CHILDREN, 1885.

According to the returns of births for 1885, there were 481 pairs of twins born in Michigan during the year. This makes 962 twin children, of which 468 were males, 490 were females and in the case of four no statement of sex was given. This is the largest number of twin children ever recorded in this State, there being 900 in 1884, and 932 in 1883. The average proportion of the sexes among twin births for the years 1875-1884 was 99 males to 100 females, a much smaller proportion of males than is found among all children born, which is 108 males to 100 females. In 1885 there were 96 males to 100 females. In Table 10 the months, as usual, are arranged in order, those months first in which occurred the greatest number of twin births. As in 1883 and 1884, the months of May and September stand first and second, respectively, in the order.

TABLE 10.—*Exhibiting, by Sex, the Number of Pairs of Twins and Twin Children returned for the year 1885.*

Year and Months, 1885.		No. of Twin Children, 1885.					No. of Pairs of Twins, 1885.					
		Totals.	Males.	Females.	Unknown.	Males to 100 Females.	Totals.	Males.	Females.	One of each Sex.	Unknown.	Males to 100 Females.
Year, 1885.....		962	^a 468	^b 490	4	96	481	143	154	182	2	79
More than the Av. No. of Twins.	May.....	96	45	51	.....	88	48	13	16	19	.....	68
	September.....	96	47	49	.....	96	48	14	15	19	.....	74
	August.....	94	44	50	.....	88	47	12	15	20	.....	60
	July.....	84	46	38	.....	121	42	16	12	14	.....	114
	January.....	82	45	35	2	129	41	14	9	17	1	82
Average per month.....		80	39	41	.....	95	40	12	13	15	.....	80
Less than the Average No. of Twins.	April.....	80	35	43	2	81	40	9	13	17	1	53
	October.....	76	33	43	.....	77	38	9	14	15	.....	60
	March.....	74	34	40	.....	85	37	10	13	14	.....	71
	June.....	70	35	35	.....	100	35	12	12	11	.....	109
	November.....	70	38	32	.....	119	35	14	11	10	.....	140
	December.....	70	30	40	.....	75	35	10	15	10	.....	100
	February.....	64	33	31	.....	106	32	10	9	13	.....	77
Unknown month.....		6	3	3	.....	100	3	.....	.....	3	.....	.....

^a Includes 39 still-born, 4 black, 1 mulatto, 4 Indian, and 2 illegitimate.

^b Includes 23 still-born, 6 black, and 3 mulatto.

With regard to the nativity of the parents of twin children for 1885, the facts are set forth in Table 11. It will be observed that 39.29 per cent of the twin births fell to native born parents, 41.79 per cent were of foreign-born parents, and 15.80 per cent were the offspring of parents, one of whom was foreign-born and the other native-born. A larger proportion of these occurs with foreign father and native mother. As compared with the average per cent for ten years, 1875-1884, there is a decrease of 4.16 per cent from the average among the native-born, an increase of 4.75 per cent above the average among the foreign-born, while the births from mixed parentage remain about the same as the average. By comparing this table with Table 7, it will be seen that the proportion of foreign-born parents was greater for twins than for all children born. As the evidence of former years sustains this fact, it seems to be quite conclusive that there is a much larger twin birth-rate among the foreign-born parents than among the native.

TABLE 11.—*Parent-nativity of Twins returned in Michigan for 1885.*

Nativity of Parents of Twins, 1885.	Pairs of Twins, 1885									
	Number.					Per Cent of each Parent-Nativity to Total of All Nativities.				
	Totals.	Males.	Females.	One of Each.	Unknown.	Totals.	Males.	Females.	One of Each.	Unknown.
All nativities.....	481	143	154	182	2	100.00	100.00	100.00	100.00	100.00
Both native-born.....	189	53	63	72	1	39.29	37.06	40.91	39.56	50.00
Both foreign-born.....	201	65	58	78	.....	41.79	45.45	37.66	42.86	.....
Foreign father and native mother.....	47	15	16	16	.....	9.77	10.49	10.39	8.79	.....
Foreign mother and native father.....	29	7	14	7	1	6.03	4.90	9.09	3.85	50.00
Unknown mother, father native.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unknown mother, father foreign.....	1	.....	.....	1	.....	.21	.....	.....	.55	.....
Unknown father, mother native.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unknown father, mother foreign.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Both unknown.....	14	3	3	8	.....	2.91	2.10	1.95	4.39	.....
One or both native.....	265	75	93	95	2	55.09	52.45	60.39	52.20	100.00
One or both foreign.....	278	87	88	102	1	57.80	60.84	57.14	56.04	50.00

Table 12 shows the proportion of twin births, by nativity and color of mothers, for each of the years 1883-1885, and the average for ten years 1875-1884. By the average for ten years, it is seen that the largest proportion of twins was from the foreign-born mothers and from the black and mulatto mothers.

TABLE 12.—*By Nativity and Color of Mothers, the Number and Proportion of Twin Births returned for the Years 1883, 1884, 1885, and the Average for Ten Years, 1875-1884.*

Nativity and Color of Mothers of Twins.	1883.			1884.			1885.			Average for 10 Years, 1875-1884.		
	No. of Pairs of Twins.	Whole Number of Mothers, including those of Twins.	Per Cent of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, including those of Twins.	Per Cent of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, including those of Twins.	Per Cent of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, including those of Twins.	Per Cent of Births of Twins to all Mothers.
Mothers of all Colors and all Nativities.....	466	40,325	1.16	450	39,950	1.13	481	41,624	1.16	407	35,302	1.15
All Native-born mothers.....	258	22,323	1.16	218	21,937	.99	237	22,506	1.05	224	20,039	1.12
All Foreign-born mothers.....	195	17,138	1.14	226	17,159	1.32	230	18,146	1.27	175	14,422	1.21
Mothers of Unknown Nativities.....	13	864	1.50	6	854	.70	14	882	1.59	8	841	.95
White.....	459	39,953	1.15	444	39,576	1.12	472	41,245	1.14	401	34,874	1.15
Black.....	3	116	2.59	3	106	2.83	5	151	3.31	2	120	1.67
Mulatto.....	3	113	2.66	3	98	3.06	2	104	1.92	2	91	2.30
Indian.....	1	126	.71	—	135	—	2	122	1.64	1	130	.77
Unknown.....	—	17	—	—	35	—	—	2	—	1	87	1.15
Black and Mulatto.....	6	229	2.62	6	204	2.94	7	255	2.75	4	211	1.90

There were 7 cases of triplets returned for 1885, 3 more than were reported in 1884 and 2 less than in 1883. Of the nativity of the parents, 4 were foreign-born, 2 were native-born, and in one case there was a mixed parentage, the father being native and the mother foreign. There were 8 males and 13 females, all white.

TABLE 13.—*Exhibiting certain details concerning Triplet Children returned for the Year 1885.*

Counties.	Triplet Children, 1885.					Parents of Triplets, 1885.		
	Month of Birth, 1885.	Color.	Sex.			Birthplace of Father.	Birthplace of Mother.	Occupation of Father.
			Males.	Females.	Unknown.			
Huron.....	Nov....	White..	.....	3	.....	Germany..	Germany..	Farmer.
Kent.....	Aug....	White..	1	2	.....	Holland....	Holland....	Laborer.
Keweenaw.....	June...	White..	3	.....	.....	Finland....	Finland....	Laborer.
Lenawee.....	July....	White..	.....	3	.....	Michigan...	Michigan...	Farmer.
Menominee.....	March..	White..	3	.....	.....	Norway....	Norway....	Sawyer.
Monroe.....	Nov....	White..	.....	3	.....	Michigan...	Michigan...	Farmer.
Wayne.....	Jan....	White..	* 1	* 2	.....	New York..	Ireland....	Machinist.

* 1 male and 2 females still-born.

Table 14 shows the number of pairs of twins and sets of triplets that have been returned in this State for the fourteen years, 1872-1885, also the average for these years. According to the average, there have been 86 births to every pair of twins.

TABLE 14.—*Exhibiting the number of Pairs of Twins, and the Cases of Triplets, returned in Michigan for the fourteen years, 1872-1885.*

Years.	Pairs of Twins.	Cases of Triplets.	No. of Births to One Pair of Twins.	No. of Births to One Case of Triplets.
1872.....	342	5	82	5,599
1873.....	420	4	82	8,652
1874.....	408	2	76	15,536
1875.....	370	1	86	31,958
1876.....	428	8	80	4,279
1877.....	367	.....	91	38,305
1878.....	427	3	82	11,721
1879.....	402	2	85	17,061
1880.....	358	5	99	7,065
1881.....	372	5	93	6,950
1882.....	430	9	86	4,114
1883.....	466	9	88	4,534
1884.....	450	4	90	10,102
1885.....	481	7	88	6,017
Average.....	409	5	86	11,927

The nativity of the parents of plural births may be seen in Table 15. For the last two years, 1884 and 1885, the percentage of foreign-born parents has exceeded that of the native-born, but in the average for fourteen years the largest per cent is for the native-born.

TABLE 15.—*Exhibiting the Parent-nativity of Plural Births, returned in Michigan for the Fourteen Years, 1872-1885.*

Years.	Totals.	Native-born.		Foreign-born.		Mixed.		Unknown.	
		Numbers.	Per Cent.	Numbers.	Per Cent.	Numbers.	Per Cent.	Numbers.	Per Cent.
1872.....	699	307	43.92	272	38.91	87	12.45	33	4.72
1873.....	852	390	45.78	330	38.73	120	14.09	12	1.40
1874.....	822	329	40.03	321	39.05	140	17.03	32	3.89
1875.....	743	271	36.47	318	42.80	124	16.69	30	4.04
1876.....	880	391	44.43	322	36.59	143	16.25	24	2.73
1877.....	734	334	45.51	252	34.33	122	16.62	26	3.54
1878.....	863	402	46.58	291	33.72	142	16.45	28	3.25
1879.....	810	374	46.17	236	29.14	188	23.21	12	1.48
1880.....	731	341	46.65	276	37.75	104	14.23	10	1.37
1881.....	759	355	46.77	270	35.57	124	16.34	10	1.32
1882.....	887	350	39.46	358	40.36	153	17.25	26	2.93
1883.....	959	417	43.48	364	37.96	150	15.64	28	2.92
1884.....	912	380	39.47	396	43.42	144	15.79	12	1.32
1885.....	963	384	39.06	414	42.12	155	15.77	30	3.05
Average.....	831	353	43.08	316	38.03	135	16.24	22	2.65

STILL-BIRTHS, 1885.

The returns for 1885 give the large number of 1,008 still-births, being 89 more than for 1884. The number of still-births shows quite a steady gain from 1874 to 1885, as will be seen by the reports from year to year, as follows: 1874, 464; 1875, 629; 1876, 646; 1877, 720; 1878, 793; 1879, 749; 1880, 738; 1881, 691; 1882, 792; 1883, 884; 1884, 919; 1885, 1,008.

The following table exhibits the proportion of still-births to all births, and of the mothers of still-born children to all mothers, for the years 1882-1885, and the average for ten years, 1875-1884. It will be noticed that the percents for the average are not as great as those for the other years in the table.

TABLE 16.—*The Relation of Still-births to all Births, and the Relation of Mothers of Still-born Children to all Mothers returned for the Years 1882-1885, and the Average for the Ten Years, 1875-1884.*

Children and Mothers.	Total Births and Still-births.				
	1882.	1883.	1884.	1885.	Av. for 10 Years, 1875-1884.
All children born	37,026	40,809	40,408	42,119	35,719
Still-born children.....	792	884	919	1,008	756
Per cent of still-born to total	2.14	2.17	2.27	2.39	2.12
All mothers	36,578	40,325	39,950	41,824	35,302
Mothers of still-born children.....	771	863	904	978	736
Per cent of mothers of still-born children to all mothers	2.11	2.14	2.26	2.35	2.08

In table 17 is given the nativity and color of the mothers of still-born children and the proportion each bears to the total of each nativity and color. The percentage of native-born mothers is again the lowest, not only for each year in the table, but also for the average for ten years. The black and mulatto mothers continue to have the highest per cent, while the Indian mothers have the lowest.

Table 18 presents all the known facts gathered from the returns concerning the nativity of both parents of all still-born children.

Those wishing to ascertain the monthly record of still-births of each sex and the total, will find that information in table 19.

Some interesting comparisons concerning the number of children born alive, the still-births and illegitimates, with the proportions that the male births bear to the female births in each, may be seen in table 20. As usual, the still-births in 1885 show a large proportion of males, while of the children born alive the proportion of males is below the average.

The universal rule appears to be an excess of males among the still-births, not alone in Michigan, but also in other States. In Rhode Island, for the past thirty years, there has been an average of 100 male still-births to every 53 female still-births; and the only known time when there was an approach to equality in that State was in 1883, when there was an excess of only one. The Massachusetts Report for 1883 gives the ratio there of about three males to every two females. In our own State the ratio in 1885 is seen to be 62 males to 38 females, and the average for the past fourteen years was in about the same proportion.

TABLE 17.—By Nativity and Color, the Number and Proportion of Mothers having Still-births, for the Years 1883-1885, and the Average for Ten Years 1875-1884.

Nativity and Color of Mothers.	1883.			1884.			1885.			Average for 10 Years, 1875-1884.		
	Mothers having Still-births.	Whole No. of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole No. of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole No. of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.	Mothers having Still-births.	Whole No. of Mothers, including those of Still-births.	Per Cent of Mothers of Still-births to all Mothers.
Mothers of all colors and all Nativities.....	863	40,825	2.14	904	39,950	2.26	978	41,624	2.35	796	35,302	2.08
All native-born mothers.....	398	22,323	1.78	373	21,937	1.70	414	22,596	1.83	349	20,039	1.74
All foreign-born mothers.....	334	17,138	1.95	348	17,159	2.03	389	18,146	2.14	294	14,422	2.04
Mothers of unknown Nativities.....	131	864	15.16	183	854	21.43	175	882	19.84	93	841	11.06
White.....	846	39,953	2.12	858	39,576	2.17	958	41,245	2.32	714	33,874	1.94
Black.....	2	116	1.72	8	106	7.55	13	151	8.61	4	120	3.33
Mulatto.....	1	113	.88	3	98	3.06	6	104	5.77	3	91	3.30
Indian.....	1	126	.79	6	135	4.44	1	122	.82	2	130	1.54
Unknown.....	13	17	76.47	29	35	82.86	2	2	.....	13	87	14.94
Black and Mulatto.....	3	229	1.31	11	204	5.39	19	255	7.45	7	211	3.33

TABLE 18—*Parent-nativity of Still-born Children, returned for the Year 1885.*

Nativity of Parents of Still-born Children, 1885.	Still-born Children, 1885.							
	Number.				Per Cent of each Parent-nativity to total of all Nativities.			
	Total.	Males.	Females.	Unk.	Total.	Males.	Females.	Unk.
All nativities	1,008	606	372	30	100.00	100.00	100.00	100.00
Both native-born.....	345	202	131	12	34.22	33.33	35.21	40.00
Both foreign-born.....	342	210	125	7	33.93	34.65	33.60	23.33
Foreign father and native mother.....	76	45	28	3	7.54	7.43	7.53	10.00
Foreign mother and native father.....	53	30	18	5	5.26	4.95	4.84	16.67
Unknown mother, father native.....	2	1	1	-----	.20	.16	.27	-----
Unknown mother, father foreign.....	1	1	-----	-----	.10	.16	-----	-----
Unknown father, mother native.....	5	3	1	1	.50	.50	.27	3.33
Unknown father, mother foreign.....	7	5	2	-----	.69	.83	.54	-----
Both unknown	177	109	66	2	17.56	17.99	17.74	6.67
One or both native.....	481	281	179	21	47.72	46.37	48.12	70.00
One or both foreign.....	479	291	173	15	47.52	48.02	46.51	50.00

VITAL STATISTICS

NATIVITY OF PARENTS OF STILL-BORN CHILDREN.

51

TABLE 19.—*Exhibiting, by Sex, the Parent-nativity, and by Sex and Months, the Number of Still-births returned in Michigan for the Year 1885.*

Sex of Still-births, 1885.	Year 1885.	Months, 1885.												Nativity of Parents of Still-births, 1885.									
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Native.	Foreign.	Foreign Father and Na- tive Mother.	Foreign Mother and Na- tive Father.	Mother Unknown.		Father Unknown.		Both Unknown.
																			Father.	Mother.	Native.	Foreign.	
Total.....	a 1,008	88	66	84	93	90	78	86	95	77	75	79	95	2	345	342	76	53	2	1	5	7	177
Males.....	b 606	42	41	46	60	63	46	51	65	43	46	49	53	1	202	210	45	30	1	1	3	5	109
Females.....	c 372	42	24	33	29	24	31	32	28	33	26	28	41	1	131	125	28	18	1	.....	1	2	68
Unknown.....	d 30	4	1	5	4	3	1	3	2	1	3	2	1	.....	12	7	3	5	.....	.....	1	.....	2

a Includes 11 pairs and 4 half-pairs male twins; 5 pairs and 5 half-pairs female twins; 10 pairs and 3 half-pairs male and 3 half-pairs female twins of one of each sex; 2 pairs twins sex unknown.
 b Includes 1 triplet, 8 black, 3 mulatto, 1 Indian, and 9 illegitimate.
 c Includes 2 triplets, 6 black, 3 mulatto, and 4 illegitimate.
 d Includes 1 illegitimate.

TABLE 20.—*Exhibiting the Proportion of Males to Females among Children born alive, Still-borns, and Illegitimates.*

		1884.	1885.	Previous 12 Years.
Born alive	Males.....	20,367	21,084	206,497
	Females.....	19,090	19,994	193,926
	Unknown.....	32	33	353
Males to 100 females.....		107	105	108
Still-born	Males.....	541	606	4,308
	Females.....	324	372	3,024
	Unknown.....	54	30	423
Males to 100 females.....		167	163	142
Illegitimate.....	Males.....	101	115	1,777
	Females.....	92	129	1,630
	Unknown.....		4	32
Males to 100 females.....		110	89	109

ILLEGITIMATE CHILDREN, 1885.

The returns for 1885 place the number of illegitimate children at 248, an increase of 55 over the previous year. This is 40 below the average for the ten years, 1875-1884, but as the births in the "Foundlings' Home," of Detroit, have again not been included in the returns of illegitimates from Wayne county, it is quite probable that the number for 1885 is not far from the general average.

From an inspection of the reports of Rhode Island, 1884, and Massachusetts, 1885, it is evident that Michigan compares quite favorably with at least two States in respect to the number of illegitimate births. The rate per cent in Rhode Island is nearly one-fourth greater than in this State, while that of Massachusetts is nearly four times as great. The rate in these three States, based upon the latest accessible returns, of illegitimate births to total population, is, in Michigan, 1.3 illegitimates for every ten thousand population, in Rhode Island it is 1.6, and in Massachusetts 4.8. That is to say, there was one illegitimate in Michigan for every 7,464 inhabitants, in Rhode Island one in every 6,085, and in Massachusetts one in every 2,151.

TABLE 21.—*The Relation of Illegitimate Children to all Children Born for the Years 1882-1885, and the Average for Ten Years, 1875-1884.*

Children and Mothers.	Total Births and Illegitimates.				
	1882.	1883.	1884.	1885.	Av. for 10 Years, 1875-1884.
All children born.....	37,026	40,809	40,408	42,119	35,719
Illegitimate children.....	301	311	193	248	288
Per cent of illegitimates to total.....	.81	.76	.48	.59	.81
All mothers.....	36,578	40,325	39,950	41,624	35,302
Mothers of illegitimate children.....	299	306	192	247	286
Per cent of mothers of illegitimates to all mothers.....	.82	.76	.48	.59	.81

TABLE 22.—*By Nativity and Color, the Number and Proportion of Mothers of Illegitimates Returned for the Years 1883-1885, and the Average for Ten Years, 1875-1884.*

Nativity and Color of Mothers.	1883.			1884.			1885.			Average for 10 Years, 1875-1884.		
	Mothers having Illegitimates.	Whole No. of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Illegitimates.	Whole No. of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Illegitimates.	Whole No. of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Illegitimates.	Whole No. of Mothers, including those of Illegitimates.	Per Cent of Mothers of Illegitimates to all Mothers.
Mothers of all colors and all nativities.....	306	40,325	.76	192	39,950	.48	247	41,624	.59	286	35,302	.81
All native-born mothers.....	135	22,323	.60	103	21,937	.47	115	22,596	.51	139	20,039	.69
All foreign-b'n mothers.....	86	17,138	.50	69	17,159	.40	85	18,146	.47	69	14,422	.48
Mothers of unknown nativities.....	85	864	9.84	20	854	2.34	47	882	5.33	78	841	9.27
White.....	289	39,953	.72	182	39,576	.46	235	41,245	.57	268	34,874	.76
Black.....	5	116	4.31	4	106	3.77	9	151	5.96	6	120	5.00
Mulatto.....	5	113	4.42	1	98	1.02	-----	104	-----	4	91	4.40
Indian.....	7	126	5.55	5	135	3.70	3	122	2.46	9	130	6.92
Unknown.....	-----	17	-----	-----	35	-----	-----	2	-----	1	87	1.15
Black and mulatto....	10	229	4.36	5	204	2.45	9	255	3.53	10	211	4.74

TABLE 24.—*Exhibiting the Number of Illegitimate Births returned in Fourteen Years, 1872-1885.*

Years.	Children Born out of Wedlock.		Years.	Children Born out of Wedlock.	
	Number.	To every 1,000 Births.		Number.	To every 1,000 Births.
1872.....	199	7.11	1879.....	292	8.56
1873.....	316	9.13	1880.....	425	12.03
1874.....	236	7.57	1881.....	382	10.99
1875.....	193	6.04	1882.....	301	8.13
1876.....	266	7.77	1883.....	311	7.62
1877.....	316	9.46	1884.....	193	4.78
1878.....	202	5.74	1885.....	248	5.89
Average, 14 years.....				277	7.92

TABLE 25.—*Showing the Nativity of Mothers of Illegitimates for the Fourteen Years, 1872-1885.*

Years.	Totals.	Native.		Foreign.		Unknown.	
		Number.	Per Cent.	Number.	Per Cent.	Number.	Per Cent.
1872.....	199	101	50.76	65	32.66	33	16.58
1873.....	316	128	40.51	95	30.06	93	29.43
1874.....	236	110	46.61	93	39.41	33	13.98
1875.....	193	96	49.74	32	16.58	65	33.68
1876.....	266	173	65.04	53	19.92	40	15.04
1877.....	316	161	50.95	80	25.32	75	23.73
1878.....	202	114	56.44	34	16.83	54	26.73
1879.....	292	137	46.92	90	30.82	65	22.26
1880.....	425	148	34.82	73	17.18	204	48.00
1881.....	382	187	48.95	98	25.65	97	25.40
1882.....	301	145	48.17	77	25.58	79	26.25
1883.....	311	137	44.05	86	27.65	88	28.30
1884.....	193	103	53.37	69	35.75	21	10.88
1885.....	248	115	46.37	86	34.68	47	18.95
Average.....	277	132	47.65	74	26.72	71	25.63

TABLE 26.—*Exhibiting, by Color and Sex, the Population of 1884, the Number of Illegitimates returned for the Year 1885, and the Per Cent of such Children to Inhabitants.*

Color or Race.	Sex.	Population June 1, 1884, Represented by Births in 1885.	Total Illegitimate Births, 1885.	Per Cent of Births to Population.	Per Cent of each Sex to Total of Both Sexes.	Number of Inhabitants to one Illegitimate Child of the same color.
All colors.....	Total.....	* 1,851,128	248	.01	-----	7,464
	Males.....	972,960	115	.01	47.13	8,461
	Females.....	877,962	129	.01	52.87	6,806
	Unknown.....	206	4	-----	-----	-----
White.....	Total.....	1,828,057	236	.01	-----	7,746
	Males.....	960,965	110	.01	47.41	8,736
	Females.....	867,082	122	.01	52.59	7,107
	Unknown.....	10	4	-----	-----	-----
Black.....	Total.....	6,856	9	.13	-----	763
	Males.....	3,692	3	.08	33.33	1,231
	Females.....	3,164	6	.19	66.67	527
Mulatto.....	Total.....	8,256	-----	-----	-----	-----
	Males.....	4,207	-----	-----	-----	-----
	Females.....	4,049	-----	-----	-----	-----
Indian.....	Total.....	6,804	3	.04	-----	2,268
	Males.....	3,525	2	.06	66.67	1,763
	Females.....	3,279	1	.08	33.33	3,279
Unknown.....	Total.....	1,085	-----	-----	-----	-----
	Males.....	501	-----	-----	-----	-----
	Females.....	388	-----	-----	-----	-----
	Unknown.....	196	-----	-----	-----	-----
Black and Mulatto.....	Total.....	15,112	9	.06	-----	1,679
	Males.....	7,899	3	.04	33.33	2,633
	Females.....	7,213	6	.08	66.67	1,202

* Includes 70 Asiatic males.

TABLE 27.—*Exhibiting, by Counties, the Number of Pairs of Twins, and the Number of Illegitimate and Still-born Children returned for the Year 1885.*

State and Counties.	Number of Pairs of Twins Born in 1885.	Number of Illegitimate Children Born in 1885.	Number of Still-births in 1885.	Counties.	Number of Pairs of Twins born in 1885.	Number of Illegitimate Children Born in 1885.	Number of Still-births in 1885.
State.....	481	248	1,008	Ionia.....	3	.....	9
Alcona.....	1	1	1	Iosco.....	2	1	3
Alger.....	1	.....	.....	Iron.....	1	2	6
Allegan.....	15	5	18	Isabella.....	2	4	11
Alpena.....	3	1	6	Jackson.....	5	2	9
Antrim.....	.....	2	5	Kalamazoo.....	4	1	15
Arenac.....	2	1	3	Kalkaska.....	1	1	1
Baraga.....	1	1	2	Kent.....	23	3	41
Barry.....	4	.....	4	Keweenaw.....	2	1	2
Bay.....	17	4	26	Lake.....	1	.....	2
Benzie.....	3	1	4	Lapeer.....	8	3	8
Berrien.....	12	6	25	Leelanaw.....	1	1	4
Branch.....	5	.....	13	Lenawee.....	8	6	16
Calhoun.....	8	6	12	Livingston.....	4	2	2
Cass.....	3	5	6	Mackinac.....	3	1	1
Charlevoix.....	2	2	7	Macomb.....	9	8	19
Cheboygan.....	4	2	5	Manistee.....	8	4	13
Chippewa.....	4	5	8	Manitou.....	.....	.....	1
Clare.....	1	1	4	Marquette.....	16	3	25
Clinton.....	9	3	11	Mason.....	5	2	6
Crawford.....	1	1	2	Mecosta.....	8	2	10
Delta.....	3	1	2	Menominee.....	6	5	9
Eaton.....	2	.....	18	Midland.....	4	2	3
Emmet.....	2	2	7	Missaukee.....	.....	.....	10
Genesee.....	6	3	18	Monroe.....	10	7	14
Gladwin.....	.....	.....	3	Montcalm.....	8	6	6
Grand Traverse.....	2	1	4	Montmorency.....	2	.....	2
Gratiot.....	4	.....	9	Muskegon.....	13	4	17
Hillsdale.....	2	.....	2	Newaygo.....	3	1	6
Houghton.....	15	1	19	Oakland.....	4	2	11
Huron.....	6	3	18	Oceana.....	5	.....	6
Ingham.....	10	3	14	Ogemaw.....	.....	1	.....
				Ontonagon.....	.....	1	1

VITAL STATISTICS OF MICHIGAN, 1885.

TABLE 27.—CONTINUED.—*Births 1885.*

Counties.	Number of Pairs of Twins Born in 1885.	Number of Illegitimate Children Born in 1885.	Number of Still-births in 1885.	Counties.	Number of Pairs of Twins Born in 1885.	Number of Illegitimate Children Born in 1885.	Number of Still-births in 1885.
Osceola.....	3	3	9	St. Clair.....	6	13	23
Oscoda.....	1		2	St. Joseph.....	3	6	11
Otsego.....	1		1	Tuscola.....	9	4	20
Ottawa.....	8	7	14	Van Buren.....	9	1	11
Presque Isle.....	2	3	1	Washtenaw.....	4	4	13
Saginaw.....	23	8	50	Wayne.....	75	56	248
Sanilac.....	10	5	27	Wexford.....	7		8
Shiawassee.....	4	1	2				

TABLE 28.—*Townships in which it was reported there were no births in 1885.*

Counties.	Townships—No Births in 1885.	Population in 1885.		
		Totals.	Males.	Females.
Totals.....		3,280	2,106	1,154
Allegan.....	Pine Plains.....	561	299	262
Gladwin.....	Clement.....	54	30	24
Iosco.....	Thompson.....	42	26	16
Kalkaska.....	{ Glade.....	42	25	17
	{ Oliver.....	65	31	34
Lake.....	{ Center.....	79	46	33
	{ Eden.....	71	46	25
	{ Elk.....	298	224	74
Mackinac.....	Lakefield.....	187	110	77
Marquette.....	Richmond.....	370	205	165
	{ Edwards.....	158	88	70
Ogemaw.....	{ Hill.....	30	20	10
	{ Horton.....	228	135	93
Ontonagon.....	Bohemia.....	272	171	101
Roscommon.....	{ Gerrish.....	251	198	58
	{ Nester.....	301	353	38
	{ Richfield*.....			
	{ Roscommon.....	161	104	57

* Organized since census was taken.

TABLE 29.—*Exhibiting the Counties and Townships from which no Returns of Births in 1885 were received.*

Counties.	Townships from which no Returns of Births were received for 1885.	Population, June 1, 1884.				White.			Black and Mulatto.			Indian.			Unknown.			Native.			Foreign.			Unknown.		
		Totals.	Males.	Females.	Re's aged 15 to 45.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.
Totals.....		2,530	1,464	1,066	---	2,423	1,411	1,012	11	4	7	96	49	47	---	1,779	950	829	746	510	236	5	4	1	---	---
Alger.....	{ Au Train *.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	{ Munising.....	323	207	116	---	244	165	79	---	---	---	79	42	37	---	194	110	84	129	97	32	---	---	---	---	---
Crawford.....	{ Beaver Creek.....	182	92	90	---	182	92	90	---	---	---	---	---	---	---	173	88	85	9	4	5	---	---	---	---	---
	{ Blaine *.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mason.....	{ Grove.....	177	107	70	---	177	107	70	---	---	---	---	---	---	---	135	75	60	42	32	10	---	---	---	---	---
	{ Hamlin.....	297	170	127	---	280	163	117	---	---	---	17	7	10	---	175	95	80	127	75	47	---	---	---	---	
Mecosta.....	{ Sheridan.....	294	174	120	---	233	170	113	11	4	7	---	---	---	---	236	139	97	58	35	23	---	---	---	---	---
	{ Bessemer *.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ontonagon.....	{ Ironwood *.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Otsego.....	{ Hayes.....	201	110	91	---	201	110	91	---	---	---	---	---	---	---	145	76	69	56	34	22	---	---	---	---	---
	{ Roscommon.....	851	508	343	---	851	508	343	---	---	---	---	---	---	---	529	276	253	318	229	89	4	3	1	---	---
Wexford.....	{ Concord.....	205	96	109	---	205	96	109	---	---	---	---	---	---	---	132	91	101	12	4	8	1	1	---	---	---

* Organized since census was taken.

Seventeen townships, representing a population of 3,260, make returns that no births occurred therein in 1885. As the average birth-rate is one to about every 45 inhabitants, or to about every 21 females, it is a noteworthy as well as curious circumstance, that townships aggregating over three thousand inhabitants of whom 1,154 are females, and which by the rule of general average should return at least 50 births, should be returned as not having a single birth.

It will also be seen by Table No. 29 that from twelve townships, aggregating—so far as they appear in the last census—a population of 2,530, of whom 1,066 were females, no returns at all were received for the year 1885.

MARRIAGES, 1885.

The use and value of vital statistics are in proportion to their accuracy, in which particular Michigan is doubtless not far behind any of her sister states; yet there is room for improvement, and it is earnestly hoped that all, upon whom the collecting of this important information devolves, will realize the necessity of accuracy and promptness in their work. While the law provides quite severe penalties for neglecting to comply with its requirements, still, it is frequently violated, as is evidenced by the delay far beyond the legal time in the receipt of some of the returns. The fact of such delay does not necessarily imply that some marriages are not reported at all, yet such might be a logical conclusion.

In the following pages such deductions, comparisons and computations are made as seem desirable to place concisely before the student every fact or deduction of interest or importance having an influence upon the relations growing out of the ties of wedlock. Such information is not only of value in the present, but it also becomes an important reference book for the future.

The number of marriages returned for 1885, 15,016, does not differ materially from that returned for 1884, before correction, 15,002. The additional returns have added 719 to the number for 1884, as may be seen from Table 30. The number added to the original returns for 1883 was 658, and to 1882, 652.

The original returns for 1885 give a marriage-rate of 8.10 per thousand population in 1884, or a marriage of sixteen persons in every thousand inhabitants. Using the estimated population of the State for the year 1885, the number of marriages to every thousand of the population would be 7.85.

The average number of marriages for each of certain specified periods of time, during the year 1885, was as follows:

Total number of marriages.....	15,016
Average number per quarter.....	3,754
month	1,251
week.....	289
day	41

The year 1885 continues the precedents of the preceding decade in showing the greatest number of marriages for the last quarter of the year. The excess for that quarter over the first quarter, which shows the least number, is 1,344. By comparisons of the corrected and original returns for 1884, it will be seen that of the 719 marriages added to the original returns, 57 were in the first quarter, 61 in the second, 140 in the third, and 461 in the fourth. This shows that about 64 per cent of the delay in making returns affect the figures of the last quarter. From this it appears probable that the above disparity between the last and first quarters of 1885 will be considerably increased when the returns are wholly in.

MARRIAGES BY QUARTERS.

61

TABLE 30.—*Marriages by Quarters of the Year for each of the Years 1882-1885, and the Average for Ten Years, 1875-1884, Corrected for Additional Returns up to November 1, 1886.*

Totals and Months with which Quarters end.	1882.		1883.		1884.		1885.		Average for 10 Years, 1875-1884.	
	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
Totals	16,830	100.00	17,078	100.00	15,721	100.00	15,016	100.00	14,310	100.00
March.....	3,648	21.68	3,741	21.90	3,683	23.43	3,260	21.71	3,205	22.40
June.....	3,745	22.25	4,018	23.53	3,608	22.95	3,555	23.67	3,163	22.10
September	4,011	23.63	4,061	23.78	3,792	24.12	3,596	23.95	3,419	23.89
December	5,415	32.17	5,251	30.75	4,634	29.48	4,604	30.66	4,518	31.57
Unknown	11	.07	7	.04	4	.02	1	.01	6	.04
Average *.....	4,208	25.00	4,270	25.00	3,960	25.00	3,754	25.00	3,578	25.00

* Including marriages in unknown quarter of the year.

There is no difference in Table 31 from Table 30 as far as the year 1885 is concerned, but it shows the yearly and quarterly differences between the original and corrected returns for the years 1882-4.

TABLE 31.—*Marriages by Quarters of the Year for each of the Years 1882-1885, and the Average for Ten Years, 1875-1884, as originally returned and published in Reports.*

Totals and Months with which Quarters end.	1882.		1883.		1884.		1885.		Average for 10 Years, 1875-1884.	
	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
Totals	16,178	100.00	16,420	100.00	15,002	100.00	15,016	100.00	13,496	100.00
March.....	3,577	22.11	3,696	22.51	3,626	24.17	3,260	21.71	3,123	23.14
June	3,644	22.52	3,966	24.15	3,547	23.64	3,555	23.67	3,054	22.63
September.....	3,878	23.97	3,954	24.08	3,652	24.34	3,596	23.95	3,257	24.13
December.....	5,068	31.33	4,798	29.22	4,173	27.82	4,604	30.66	4,057	30.06
Unknown.....	11	.07	6	.04	4	.03	1	.01	5	.04
Average *	4,045	25.00	4,105	25.00	3,751	25.00	3,754	25.00	3,374	25.00

* The number in unknown quarter of year included.

Table 32 shows the number of marriages by months, in their respective orders by number, for each of the years 1883-1885, and the average for ten years, 1875-1884. In each year of the table, and also for the average, the months of the last quarter have come in their regular order as to their number of marriages, October being first, November second and December third. February resumes its place of 1883 in having the least number, while June still holds the lowest place in the average for ten years. From this average it appears that for every 21 marriages which occurred in October only 13 occurred in June.

TABLE 32.—*Marriages, by Months, greatest first, for the Years 1883-1885, and the Average for Ten Years, 1875-1884. Corrected for Additional Returns up to November 1, 1886.*

Order.	1883.			1884.			1885.			Average for 10 Years, 1875-1884.		
	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.	Months.	Number.	Per Ct. of Total.
	Total...	17,078	100.00	Total...	15,721	100.00	Total...	15,016	100.00	Total...	14,310	100.00
1	Oct....	1,807	10.58	Oct. ...	1,577	10.03	Oct. ...	1,557	10.37	Oct. ...	1,516	10.59
2	Nov....	1,772	10.38	Nov....	1,566	9.96	Nov....	1,533	10.21	Nov....	1,505	10.52
3	Dec....	1,672	9.79	Dec....	1,491	9.48	Dec....	1,514	10.08	Dec....	1,497	10.46
4	Sept. ..	1,562	9.15	Sept. ..	1,325	8.43	Sept. ..	1,319	8.78	Sept....	1,279	8.94
5	April..	1,434	8.46	April..	1,309	8.33	April..	1,277	8.50	July ...	1,144	7.99
6	Jan. ...	1,356	7.94	Jan. ...	1,270	8.08	July...	1,246	8.30	Jan. ...	1,126	7.87
7	July...	1,329	7.78	July...	1,253	7.97	Jan. ...	1,166	7.77	April..	1,120	7.83
8	May...	1,297	7.59	March..	1,246	7.93	May...	1,156	7.70	March..	1,078	7.53
9	March..	1,292	7.56	Aug....	1,214	7.72	June ..	1,122	7.47	May...	1,064	7.44
10	June ..	1,287	7.54	May...	1,183	7.52	March..	1,074	7.15	Feb....	1,001	7.00
11	Aug....	1,170	6.85	Feb....	1,167	7.42	Aug....	1,081	6.87	Aug....	996	6.96
12	Feb....	1,093	6.40	June ..	1,116	7.10	Feb....	1,020	6.79	June ..	978	6.83
	Unk. ...	7	.04	Unk....	4	.03	Unk. ...	1	.01	Unk. ...	6	.04
	Av.*...	1,423	8.33	Av.*...	1,310	8.33	Av.*...	1,251	8.33	Av.*...	1,193	8.33

* Includes those for unknown month.

Table 33 gives the number of marriages by months, for the year 1885, as returned from each county in the State.

TABLE 33.—*Distinguishing by Counties and by Months, the Number of Marriages returned for the Year 1885.*

State and Counties.	Year, 1885.	Months, 1885.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State.	15,016	1,166	1,020	1,074	1,277	1,156	1,123	1,246	1,031	1,319	1,557	1,533	1,514	
Alcona.	32	3	2			4	2	3	5	6	2	3	2	
Alger.	3						1	1			1			
Allegan.	324	19	15	20	19	33	39	25	26	26	32	34	36	
Alpena.	133	5	1	7	13	12	9	22	12	11	20	13	8	
Antrim.	86	5	2	6	5	9	12	8	5	6	12	6	10	
Arenac.	15	2	3	2	2	2	1	1		1			1	
Baraga.	15	2	1	1	1	3	2	1		1	2		1	
Barry.	209	13	19	14	18	10	13	18	11	24	21	23	25	
Bay.	307	32	23	19	25	19	23	29	15	27	31	33	31	
Benzie.	45	2	4	1	2	5	6	4	2	2	7	5	5	
Berrien.	432	37	41	22	36	33	32	39	29	38	28	41	56	
Branch.	281	29	22	24	20	28	16	19	10	22	29	31	31	
Calhoun.	342	28	24	26	27	25	21	22	28	32	36	34	39	
Cass.	208	21	18	19	22	14	16	13	13	19	22	11	20	
Charlevoix.	47	2	1	2	3	6	3	2	8	6	3	6	5	
Cheboygan.	80	3	2	1	7	7	4	12	7	8	13	8	8	
Chippewa.	69	6	9	3	2	3	9	8	5	6	6	4	8	
Clare.	52	4	2	6	5	3	4	11	1	5	3	5	3	
Clinton.	202	20	14	22	11	12	5	15	13	17	26	23	24	
Crawford.	19	2		3	5	2	2	1	1	1	2			
Delta.	79	9	4	6	10	6	8	7	3	3	10	7	6	
Eaton.	283	23	16	24	19	16	29	19	20	17	33	24	43	
Emmet.	57	1	3	2	6	9	3	5	5	2	8	7	6	
Genesee.	259	18	19	26	20	15	26	26	18	26	32	28	35	
Gladwin.	19		4	3	2		3	1	2	2		2		
G'd Traverse.	85	2	7	8	10	5	5	7	8	9	8	9	7	
Gratiot.	210	10	20	18	9	16	8	17	16	23	24	27	22	
Hillsdale.	341	25	22	33	27	27	11	24	21	26	45	39	41	
Houghton.	193	20	12	9	11	17	21	9	26	16	27	14	11	
Huron.	114	20	9	3	8	9	8	8	8	8	8	14	11	

TABLE 93.—CONTINUED.—*Marriages by Counties, by Months.*

Counties.	Year, 1885.	Months, 1885.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ingham.....	301	26	24	27	15	19	15	17	27	33	27	35	36	----
Ionia	282	26	20	27	18	14	18	18	19	26	28	36	32	----
Iosco.....	86	7	6	2	10	4	4	9	6	8	7	12	11	----
Iron.....	7	-----	-----	-----	-----	-----	-----	-----	-----	-----	2	2	3	----
Isabella	142	11	12	10	9	15	13	5	7	14	13	17	16	----
Jackson	367	33	24	25	30	27	31	26	21	24	50	38	38	----
Kalamazoo.....	248	24	21	15	23	17	31	13	18	25	35	12	14	----
Kalkaska.....	23	3	1	-----	5	5	-----	2	1	-----	2	2	2	----
Kent	848	60	46	64	58	80	71	72	63	64	101	74	95	----
Keweenaw.....	17	-----	-----	1	1	2	3	2	1	1	4	-----	2	----
Lake	55	5	3	4	2	2	3	8	6	4	6	6	6	----
Lapeer.....	238	19	24	17	22	13	18	13	19	23	23	27	20	----
Leelanaw.....	46	4	9	2	5	3	4	3	3	1	4	3	5	----
Lenawee.....	505	40	41	37	35	35	41	44	25	47	47	52	61	----
Livingston.....	124	12	13	13	10	6	3	6	9	11	10	12	19	----
Mackinac.....	29	4	1	2	-----	4	1	4	2	4	1	3	3	----
Macomb	241	11	21	18	32	17	21	10	9	13	30	33	26	----
Manistee.....	155	6	14	6	13	13	9	23	11	19	10	24	7	----
Manitou	7	1	-----	-----	-----	1	2	1	-----	1	1	-----	-----	----
Marquette	141	13	7	6	13	8	17	10	19	11	13	14	10	----
Mason.....	80	8	5	6	9	3	2	16	6	6	6	2	11	----
Mecosta.....	204	12	12	23	21	12	5	23	10	18	25	24	19	----
Menominee.....	157	11	8	7	21	13	18	16	11	18	16	10	8	----
Midland	85	6	5	11	6	8	7	8	3	6	3	15	7	----
Missaukee.....	22	1	3	1	4	1	3	2	1	-----	1	2	3	----
Monroe.....	333	36	15	22	29	29	16	25	28	36	38	33	25	1
Montcalm.....	297	27	21	33	24	21	16	24	16	15	30	32	38	----
Montmorency.....	7	-----	-----	1	3	1	1	-----	-----	-----	1	-----	-----	----
Muskegon.....	303	28	11	18	19	24	14	39	28	27	30	32	33	----
Newaygo.....	111	7	9	10	12	13	6	13	12	11	10	8	-----	----
Oakland	281	25	18	35	20	25	13	19	11	24	23	30	33	----
Oceana.....	112	7	10	14	7	11	2	11	13	15	7	6	9	----
Ogemaw	25	3	-----	2	5	2	3	3	-----	3	2	1	1	----
Ontonagon.....	18	1	1	2	-----	-----	1	2	2	4	1	2	2	----
Osceola	101	11	4	7	11	5	12	12	8	10	8	6	7	----
Oscoda.....	11	2	-----	-----	3	1	2	1	1	1	-----	-----	-----	----

TABLE 38.—CONTINUED.—*Marriages by Counties, by Months.*

Counties.	Year, 1885.	Months, 1885.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Otsego.....	40	8	1	3	3	3	4	4	2	5	3	6	3	.....
Ottawa.....	275	17	14	14	31	22	21	34	18	28	25	29	22	.....
Presque Isle....	28	9	2	1	6	2	1	.....	1	5	1	.....	.....	.....
Roscommon.....	18	1	1	.....	.....	1	.....	3	2	2	1	.....	2	.....
Saginaw.....	483	38	31	36	76	45	41	41	34	42	48	33	23	.....
Sanilac.....	209	15	6	6	19	17	15	15	10	24	24	36	23	.....
Schoolcraft.....	38	1	2	2	2	5	3	6	4	8	1	4	.....	.....
Shiawassee.....	227	22	15	16	15	10	12	22	11	19	24	39	23	.....
St. Clair.....	382	23	27	33	34	24	27	29	27	31	45	40	42	.....
St. Joseph.....	344	34	24	29	25	23	23	23	29	34	37	23	36	.....
Tuscola.....	231	24	17	23	26	15	13	29	7	13	17	23	25	.....
Van Buren.....	267	18	17	19	12	19	19	22	23	22	35	26	35	.....
Washtenaw.....	293	15	20	26	25	30	23	15	17	24	27	31	40	.....
Wayne.....	1,506	89	111	64	153	130	147	111	104	139	149	179	130	.....
Wexford.....	100	9	4	4	10	6	5	10	8	10	9	10	15	.....

COLOR OF PERSONS MARRIED.

The figures in Table 34 indicate no great changes from those of 1884 in the general totals, but there has been an increase in the per cent of Mulatto and Indian marriages, the total of the former being 1.31 to .85 in 1884, and in the latter 1.36 to .80 in 1884. As these marriage-rates are computed from the population of Michigan in 1884 with the marriages in 1885, due allowance should be made for the increase in population.

A study of the foot-notes to Table 35 shows that miscegenation prevails to some extent in Michigan, there having been 27 mixed marriages in 1885, to 33 in 1884. Fourteen White females married males of another color, seven to Black grooms, four to Mulattoes, and three to Indians. Four White males have been returned as having married brides of another color, one to a Mulatto and three to Indians.

TABLE 34.—*Exhibiting, by Color and by Sex, the Number of Marriages and the Per Cent of Persons Married in 1885 to Population in 1884.*

Color, 1885.	Sex.	Population June 1, 1884, Represented by Marriages in 1885.	Number of Marriages, 1885.	Persons Married, 1885.		Per Cent of Persons Married in 1885 to Pop- ulation June 1, 1884, by Sex and Color.	Number of Persons who Married those of another Color.
				Number	Per Cent of Total.		
All colors	Total	* 1,853,658	15,016	30,032	100.00	1.62	38
	Males.....	974,424	-----	15,016	50.00	1.54	19
	Females..	879,023	-----	15,016	50.00	1.71	19
	Unknown	208	-----	-----	-----	-----	-----
White	Total	1,830,480	14,806	29,631	98.67	1.62	18
	Males	962,376	-----	14,815	98.67	1.54	4
	Females..	868,094	-----	14,816	98.67	1.71	14
	Unknown	10	-----	-----	-----	-----	-----
Black	Total	6,856	95	184	.61	2.68	8
	Males.....	3,692	-----	95	.63	2.57	7
	Females..	3,164	-----	89	.59	2.81	1
Mulatto.....	Total	8,287	56	108	.36	1.31	6
	Males.....	4,211	-----	56	.37	1.33	5
	Females..	4,056	-----	52	.35	1.28	1
Indian	Total	6,900	47	94	.31	1.36	6
	Males.....	3,574	-----	47	.31	1.32	3
	Females..	3,326	-----	47	.31	1.41	3
One or both Unk....	Total	1,085	12	15	.05	1.38	-----
	Males.....	501	-----	3	.02	.60	-----
	Females..	388	-----	12	.08	3.09	-----
	Unknown	196	-----	-----	-----	-----	-----
Black and Mulatto.	Total	15,123	151	292	.97	1.93	14
	Males.....	7,903	-----	151	1.00	1.91	12
	Females..	7,220	-----	141	.94	1.95	2

* Includes 70 Asiatic males.

TABLE 35.—*Exhibiting for the State and Counties, the Number of Marriages returned for the Year 1885, and the Color of Persons Married in 1885, stated by Couples.*

State and Counties.	Marriages, 1885.	Color of Persons Married, 1885, Stated by Couples.						
		White.	Black.	Mulatto.	Indian.	Female Unk., Male White.	Male Unk., Fe- male White.	Both Unk.
State	15,016	^a 14,806	^b 95	^c 5	447	9	.....	3
Alcona.....	32	32	.....	.....	.....	.....	.....	.....
Alger.....	3	3	.....	.....	.....	.....	.....	.....
Allegan.....	324	320	3	.....	1	.....	.....	.....
Alpena.....	133	133	.....	.....	.....	.....	.....	.....
Antrim.....	86	82	.....	.....	4	.....	.....	.....
Arenac.....	15	15	.....	.....	.....	.....	.....	.....
Baraga.....	15	15	.....	.....	.....	.....	.....	.....
Barry.....	209	209	.....	.....	.....	.....	.....	.....
Bay.....	307	307	.....	.....	.....	.....	.....	.....
Benzie.....	45	45	.....	.....	.....	.....	.....	.....
Berrien.....	432	422	^e 5	.....	2	1	.....	.....
Branch.....	281	281	.....	.....	.....	.....	.....	.....
Calhoun.....	342	336	5	.....	1	.....	.....	.....
Cass.....	208	195	5	7	^f 1	.....	.....	.....
Charlevoix.....	47	47	.....	.....	.....	.....	.....	.....
Cheboygan.....	80	80	.....	.....	.....	.....	.....	.....
Chippewa.....	69	^b 65	.....	.....	^g 4	.....	.....	.....
Clare.....	52	52	.....	.....	.....	.....	.....	.....
Clinton.....	202	202	.....	.....	.....	.....	.....	.....
Crawford.....	19	19	.....	.....	.....	.....	.....	.....
Delta.....	79	79	.....	.....	.....	.....	.....	.....
Eaton.....	283	^h 283	.....	.....	.....	.....	.....	.....
Emmet.....	57	46	.....	.....	11	.....	.....	.....
Genesee.....	289	288	2	4	.....	.....	.....	.....
Gladwin.....	19	19	.....	.....	.....	.....	.....	.....
Grand Traverse.....	85	85	.....	.....	.....	.....	.....	.....
Gratiot.....	210	210	.....	.....	.....	.....	.....	.....

^a Includes 3 couples, male White, female Indian; 1 couple, male White, female Mulatto; and 4 couples "White and Indian."

^b Includes 7 couples, male Black, female White; 1 couple, male Black, female Mulatto; and 3 couples "African and Indian."

^c Includes 4 couples, male Mulatto, female White; and 1 couple, male Mulatto, female Black.

^d Includes 3 couples, male Indian, female White.

^e 3 couples "African and Indian."

^f 1 couple, male Indian, female White.

^g 1 couple, male Indian, female White.

^h 1 couple, male White, female Indian.

ⁱ 1 couple, male White, female Indian.

TABLE 35.—CONTINUED.—*Marriages in 1885, by Counties, by Color.*

Counties.	Marriages, 1885.	Color of Persons Married, 1885, Stated by Couples.						
		White.	Black.	Mulatto.	Indian.	Female Unk., Male White.	Male Unk., Fe- male White.	Both Unk.
Hilledale	341	340	1					
Houghton	193	193						
Huron	114	114						
Ingham	301	294		a4		3		
Ionia	282	282						
Iosco	86	85			1			
Iron	7	7						
Isabella	142	130			12			
Jackson	367	362	2	3				
Kalamazoo	248	243	b5					
Kalkaska	23	c23						
Kent	848	833	8	7				
Keweenaw	17	17						
Lake	55	55						
Lapeer	238	238						
Leelanaw	46	42			d4			
Lenawee	505	503		2				
Livingston	124	124						
Mackinac	29	e29						
Macomb	241	241						
Manistee	155	155						
Mautou	7	7						
Marquette	141	140	1					
Mason	80	78			2			
Mecosta	204	204						
Menominee	157	157						
Midland	85	85						
Missaukee	22	22						
Monroe	333	333						
Montcalm	297	296		f1				
Montmorency	7	7						
Muskegon	303	303						
Newaygo	111	111						

a 1 couple, male Mulatto, female White.
b 1 couple, male Black, female White.
c 1 couple, male White, female Mulatto.

d 1 couple, male Indian, female White.
e 4 couples "White and Indian."
f 1 couple, male Mulatto, female White.

TABLE 35.—CONTINUED.—*Marriages in 1885, by Counties, by Color.*

Counties.	Marriages, 1885.	Color of Persons Married, 1885, Stated by Couples.						
		White.	Black.	Mulatto.	Indian.	Female Unk., Male White.	Male Unk., Fe- male White.	Both Unk.
Oakland.....	281	281						
Oceana.....	112	108	1		3			
Ogemaw.....	25	25						
Ontonagon.....	18	* 18						
Osceola.....	101	101						
Oscoda.....	11	11						
Otsego.....	40	40						
Ottawa.....	275	274		1				
Presque Isle.....	28	28						
Roscommon.....	13	13						
Saginaw.....	483	480	3					
Sanilac.....	209	209						
Schoolcraft.....	38	38						
Shiawassee.....	227	226		1				
St. Clair.....	382	381	b 1					
St. Joseph.....	344	337		c 5		2		
Tuscola.....	231	230			1			
Van Buren.....	267	263	2	2				
Washtenaw.....	293	283	7	3				
Wayne.....	1,506	1,445	d 44	e 14		3		
Wexford.....	100	97						3

* 1 couple, male White, female Indian.

b 1 couple, male Black, female White.

c 2 couples, male Mulatto, female White.

d 5 couples, male Black, female White; and 1 couple, male Black, female Mulatto.

e 1 couple, male Mulatto, female Black.

NATIVITY OF PERSONS MARRIED.

Table 36 shows the marriages in 1885, arranged according to the nativity of the persons married. Among the interesting facts given in this table we find that there were 10,287 native grooms to 10,728 native brides; and 4,637 foreign-born grooms to 4,145 foreign-born brides. Of the 15,016 couples married, the contracting parties were both native in 8,880 cases, while both were foreign in 2,801 cases. In 3,158 marriages, one or the other of the parties was foreign-born, and in 119 marriages, one or the other was returned as unknown. The per cent of native-born grooms to the whole number married was 66.22 in 1883, 66.70 in 1884, and 68.51 in 1885. The foreign-born percentage of grooms was 33.00 in 1883, 32.62 in 1884, and 30.88 in 1885. Of native-born brides there were 69.62 per cent in 1883, 69.59 in 1884, and 71.44 in 1885. Foreign-born brides were 29.33 in 1883, 29.34 in 1884, and 27.61 in 1885.

TABLE 36.—*By Nativity, the Number and Per Cent of Brides and of Bridegrooms returned for the Year 1885.*

Bridegrooms and Brides, Nativity Specified.		Brides, 1885.			Bridegrooms, 1885.	
		Native-born.	Foreign-born.	Unknown.	Total of each Nativity and of all Nativities.	Per Cent of each Nativity.
Bridegrooms.	Native-born	8,880	1,336	71	10,287	68.51
	Foreign-born	1,822	2,801	14	4,637	30.88
	Unknown	26	8	58	92	.61
Brides.	Whole No. of each Nativity and Total....	10,728	4,145	143	15,016	-----
	Per Cent of each Nativity and Total.....	71.44	27.61	.95	-----	100.00

The marriage-rates for the total population and for the native and foreign-born inhabitants may be seen in Table 37. As there is a difference of but 12 marriages between the original returns of 1884 and 1885, there is practically no difference in the percentages as computed for the total of all nativities. There is, however, some change in the proportion of native to foreign-born marriages, which is indicated by the difference in the percentages. The present year gives for the native-born, total 1.55, males 1.48, females 1.62; in 1884 they were, total 1.51, males 1.44, females 1.58. The foreign-born of 1885 were, total 1.80, males 1.70, females 1.93; in 1884, total 1.91, males 1.80, females, 2.05.

The basis of calculation being the population according to the census of 1884, without allowance for increase of population, it follows that there has really been a decrease in the marriage-rate from that of the preceding year.

As usual from this table, it appears that the per cent of marriages is greater among the foreign-born than the native population. That such a conclusion is not correct is shown by the tabulated exhibit following Table 37, in which the per cent of native marriages is seen to be 2.69, being .08 per cent greater than in 1884, and the per cent of foreign 2.07, being .13 per cent less than in 1884. An examination of the census of 1884 shows that while there were 575,018 native children under 15 years of age, there were but 63,584 foreign-born of the same age. From this it is apparent that a rate per cent based upon the total population is not as accurate as one based upon a comparison of the marriageable population, which is the case in the tabulated exhibit referred to.

TABLE 37.—*Exhibiting, by Sex, the Nativity of Persons Married in Michigan in 1885, and the Population in 1884.*

Nativity of Persons Married, 1885.	Marriages, 1885.		Population June 1, 1884, Represented by Marriages in 1885.			Persons Married, 1885.					
	Number.	Per Cent of Total.	Total.	Males.	Females.	Number.			Per Cent of Persons Married in 1885 to Population of same Nativity, June 1, 1884.		
						Total.	Males.	Females.	Total.	Males.	Females.
Totals.....	15,016	100.00	^b 1,853,658	974,424	879,028	30,032	15,016	15,016	1.62	1.54	1.71
Native-born.....	8,880	59.14	^c 1,357,639	695,490	662,145	21,015	10,287	10,728	1.55	1.48	1.62
Foreign-born.....	2,801	18.65	^d 486,968	272,298	214,669	8,782	4,637	4,145	1.80	1.70	1.93
Foreign male and native female ..	1,822	12.13	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foreign female and native male ..	1,336	8.90	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nativity unknown.....	^a 177	1.18	^e 9,061	6,636	2,214	235	92	143	2.60	1.39	6.46
One or both native.	12,135	80.81	.....	.....	.....	.....	.....	.....	.....	.....	.....
One or both foreign	5,981	39.83	.....	.....	.....	.....	.....	.....	.....	.....	.....

^a Includes cases where one or both are unknown.

^b Includes 206 unknown sex.

^c Includes 4 unknown sex.

^d Includes 1 unknown sex.

^e Includes 201 unknown sex.

Nativity.	Inhabitants June 1, 1884, Aged 15 Years and Over.			Persons Married 1885.			Per Cent of Persons Married in 1885 to Inhabitants June 1, 1884, aged 15 years and over.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities.....	1,213,634	649,588	564,046	30,032	15,016	15,016	2.47	2.31	2.66
Native	782,620	403,790	378,830	21,015	10,287	10,728	2.69	2.55	2.83
Foreign.....	423,384	239,627	183,557	8,782	4,637	4,145	2.07	1.93	2.26

In table 38 is presented the per cent of marriages, in Michigan, according to the nativity of the persons married for a period of fourteen years extending from 1872 to 1885 inclusive. The yearly average for the same period is also given. The percentages for the year 1885 do not differ materially from those of the average except that of unknown nativity, which is somewhat less than the average and also less than that of the two preceding years.

TABLE 38.—*Per cent of Marriages, by Nativity, in Michigan for Fourteen Years, 1872-1885.*

Years.	Both Na- tive-born.	Both For- eign-born.	Native-born Groom and Foreign- born Bride.	Foreign- born Groom and Native-born Bride.	Unknown.
1872.....	60.09	18.05	6.95	11.88	3.03
1873.....	57.94	20.72	6.69	12.45	2.20
1874.....	59.89	18.29	7.39	12.17	2.26
1875.....	61.55	16.08	7.35	12.88	2.14
1876.....	62.44	15.02	7.01	13.26	2.27
1877.....	63.33	14.31	7.18	13.05	2.13
1878.....	63.83	12.68	7.72	13.48	2.29
1879.....	64.15	12.78	7.40	13.56	2.11
1880.....	62.17	15.20	7.48	13.02	2.13
1881.....	59.30	18.00	8.18	12.75	1.77
1882.....	58.15	19.61	8.72	12.47	1.05
1883.....	57.19	20.60	8.65	12.27	1.29
1884.....	57.28	20.32	9.00	12.11	1.29
1885.....	59.14	18.65	8.90	12.13	1.18
Average.....	60.46	17.16	7.76	12.68	1.94

AGES OF PERSONS MARRIED.

The customary average of about 28 years for males and 23 years for females is again shown by the returns for 1885. As usual, the marriages of foreign nativities show a larger average age for both males and females than those of the native-born. This may result from a naturally changed social condition incident to a change of habitation, which would also naturally tend to delay the time of forming matrimonial connections.

TABLE 39.—*By Nativity, the Average Age of Persons Married in Michigan in 1882-1885, and the Average for Ten Years, 1876-1885.*

Nativity of Persons Married.	1882.		1883.		1884.		1885.		Average Age for 10 Y'rs, 1876-1885.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
All nativities.....	28.17	23.39	28.25	23.36	28.43	23.40	28.35	23.39	28.18	23.20
Native.....	27.69	23.01	27.82	22.90	28.00	22.96	27.81	22.87	27.67	22.77
Foreign.....	29.17	24.32	29.09	24.40	29.27	24.44	29.51	24.70	29.37	24.45
Unknown.....	28.70	23.85	29.21	24.52	31.06	24.06	30.62	23.95	29.18	23.92

The marriages in 1885 by sex and periods of age, and the number and proportion of persons married, are shown in Table 40. There is but little change from the same table for 1884, there being some increase in the number of persons married under 20 years of age, and from 20 to 25. The proportion of persons married at ages from 20 to 30 years is about the same as in 1884, when it was 69.85 per cent of the total males married, and 52.17 per cent of the females. This year the proportions are 69.66 per cent of the total males and 51.04 per cent of the total females married.

TABLE 40.—*Exhibiting, by Sex and by Periods of Age, the Number and Per Cent of Persons Married during the Year 1885.*

Ages in Years and Periods.	Marriages, 1885.						
	Total Number of Persons Married, 1885.	Males.			Females.		
		Number Married.	Per Cent of Total Marriages.	Per Cent of Persons Married at Correspond- ing Ages.	Number Married.	Per Cent of Total Marriages.	Per Cent of Persons Married at Correspond- ing Ages.
All ages.....	30,032	15,016	100.00	50.00	15,016	100.00	50.00
12.....	1				1	.01	100.00
13.....	4				4	.08	100.00
14.....	21				21	.14	100.00
15.....	122	1	.01	.82	121	.81	99.18
16.....	828	2	.01	.24	826	5.50	99.76
17.....	1,166	5	.03	.43	1,161	7.73	99.57
18.....	1,759	95	.63	5.40	1,664	11.08	94.60
19.....	1,792	302	2.01	16.85	1,490	9.92	83.15
20.....	1,884	578	3.85	30.68	1,306	8.70	69.32
21 to 25.....	9,366	5,170	34.43	55.20	4,196	27.94	44.80
25 to 30.....	6,875	4,712	31.38	68.54	2,163	14.40	31.46
30 to 35.....	2,417	1,680	11.19	69.51	737	4.91	30.49
35 to 40.....	1,343	882	5.88	65.67	461	3.07	34.33
40 to 45.....	807	511	3.40	63.32	296	1.97	36.68
45 to 50.....	542	356	2.37	65.68	186	1.24	34.32
50 to 55.....	381	243	1.62	63.78	138	.92	36.22
55 to 60.....	227	158	1.05	69.60	69	.46	30.40
60 to 65.....	175	127	.85	72.57	48	.32	27.43
65 to 70.....	111	86	.57	77.48	25	.17	22.52
70 to 75.....	52	37	.25	71.15	15	.10	28.85
75 to 80.....	20	15	.10	75.00	5	.03	25.00
80 and over.....	3	3	.02	100.00			
Unknown ages.....	136	53	.35	38.97	83	.55	61.03
Under 15.....	26				26	.17	100.00
15 to 20.....	5,667	405	2.70	7.15	5,262	35.04	92.85
20 to 25.....	11,250	5,748	38.28	51.09	5,502	36.64	48.91

PERSONS MARRIED UNDER TWENTY-ONE YEARS OF AGE.

The laws of Michigan fix the ages at which parties may legally contract marriage at 18 for males and 16 for females. While some advocate a considerable raising of these ages by statute, it will be seen that the present low age does not meet the wishes of all concerned, for the returns of 1885 show that the age provision of the law was violated in 155 cases, 8 males having married when under 18, and 147 females when under 16 years of age.

The penalty for solemnizing an illegal marriage is a fine not to exceed five hundred dollars; but, as there is seldom any one interested in having the penalty enforced, it is probable there are few if any convictions of parties joining couples one or both of whom may be of unlawful age for wedlock. Probably many people will agree with the social writers, that marriage, especially for males, is not desirable, except in special cases, under the age of twenty-one. A different view of this social question was held by at least 7,577 persons in 1885, as that number were married when under 21 years of age; 988 were males and 6,594 were females.

Of those cases which might come under the head of extreme youth, there were the following: 1 female married at 12 years of age; 4 at 13; 21 at 14; 121 at 15; 826 at 16; 1,161 at 17; and 1,664 at 18. Of the males, 1 was married at 15; 2 at 16; 5 at 17; 95 at 18; 302 at 19; and 578 at 20.

From the returns it appears that the ages are known of 29,896 persons married in 1885; of these 19.04 per cent were under 20, and 37.59 per cent were over 20 and under 25. That means that over half of the persons married, in 1885, were under 25 years of age. In the Massachusetts Report for 1885, we find the per cent of same ages to have been 9.38 for under 20, and 39.58 for 20 to 25. The Rhode Island Report for 1884 gives the per cent in that State at 9.46 under 20, and 39.62 for 20 to 25.

MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE.

[illegible]

MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE.

79

Ingham	301	236	19	22	22	1			1	Males	14	118	92	30	11	10	7	5	7	3	3	1	1
										Females	103	126	36	9	7	7	4	4		1	1	1	2
Ionia	252	215	16	16	20	11		1	3	Males	11	117	71	34	17	5	10	5	6	3	2		1
										Females	96	95	43	12	15	5	5	3	2	1		1	2
Iosco	86	17	43	9	17					Males	1	39	30	6	5	2	2	1					
										Females	38	30	10	3	3	2							
Iron	7	2	5							Males			4	1	1	1							
										Females	2	1	3		1								
Isabella	142	94	18	19	10	1				Males	5	62	40	12	9	2	6	2	2	1			1
										Females	72	41	13	7	2	4	1						2
Jackson	367	272	22	36	30	4		1		Males	14	136	103	39	24	18	11	5	4	5	2	5	1
										Females	110	124	56	30	14	7	5	1	5	1	1		2
Kalamazoo	243	173	27	22	11	10	1		3	Males	6	86	75	25	16	10	6	9	8	2	3		2
										Females	61	96	35	14	12	5	10	4	4	1			6
Kalkaska	23	13	3	2	5					Males		9	11		1				1				1
										Females	13	6	1	2									1
Kent	843	452	203	97	88	1	2		4	Males	27	306	275	111	44	26	18	15	7	8	8	1	2
										Females	253	325	145	50	25	22	8	7	5	3	2		3
Keweenaw	17	4	9	4						Males		6	6	2	2						1		
										Females	10	3	1	1		1					1		
Lake	55	30	6	11	8					Males	1	21	21	8	1	1	2						
										Females	29	15	6	3	2								
Lapeer	298	122	32	36	38	5	2			Males	10	91	82	22	11	10	2	5	2	3			
										Females	94	83	34	9	5	2	3	3	2				3
Leelanaw	46	20	14	11	1					Males		19	15	3	2	3	3	1					
										Females	21	12	6	2	2	3							
Lenawee	505	414	28	34	21		4		6	Males	17	211	146	48	28	16	8	10	9	7	2	2	1
										Females	157	215	71	19	15	6	6	9	2	3		1	1

MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE.

Midland	85	41	14	15	13				1	1	{Males Females}	2 33	37	24	9	3	2	6	1	1	
Misaukee	22	6	12	2			2				{Males Females}	12 5	5	3	1		1				
Monroe	333	263	14	34	17	3	2				{Males Females}	11 112	143 128	95 50	37 15	5 7	4 5	6 4	1 3	1	3
Montcalm	297	199	38	37	20	2	1				{Males Females}	13 143	112 78	83 24	33 19	17 10	12 6	7 3	9 6	2 2	1
Montmorency	7	2	3	1	1						{Males Females}	3 3	1				1	1		1	
Muskegon	303	120	115	42	22	2			2		{Males Females}	6 98	109 111	92 43	34 19	25 8	18 10	3 1	3 7	3 3	
Newaygo	111	81	10	9	9				2		{Males Females}	59 6	55 104	30 84	5 36	6 3	4 2	3 2	4 1	1 1	1
Oakland	231	214	10	23	27	1			1		{Males Females}	6 93	104 93	86 56	10 12	11 10	8 1	4 2	2 2	2 1	1
Oceana	112	83	11	11	7						{Males Females}	5 46	35 38	32 13	9 4	4 3	5 4	1 4	3 1	1	
Ogemaw	25	10	5	6	3				1		{Males Females}	13 3	4 11	1 3	6 3	2 1	2 1	1 1	1 1		1
Ontonagon	18	11	3	4							{Males Females}	2 3	11 37	3 34	1 6						1
Oscoda	101	44	25	23	9						{Males Females}	3 36	37 38	34 13	6 7	10 1	2 3	5 2	3 1	3	1
Oscoda	11	8	1	2							{Males Females}	5 6	4 3			2					
Otsego	40	18	5	10	7						{Males Females}	2 20	15 10	11 2	8 4		2	1	1		2

MANNER OF UNION BY AGES.

There were 14,930 marriages in Michigan in 1885, where the ages of the parties were known. In 4,057 marriages the contracting parties were of the same period of age; in 923 marriages the brides were older than the grooms, and in 9,950 the grooms were of a period of age older than that of the brides. In 33 cases the age of the groom is given while that of the bride is unknown; in 3 cases the age of the bride is given, but that of the groom is unknown; and in 50 cases the age of both parties is unknown.

The returns of marriages for 1885, as usual, show some curious and interesting ones in regard to the disparity of age of the contracting parties. Among the more remarkable may be mentioned a groom of 72 to a bride of 18, which was solemnized in Jackson county; a groom of 68 to a bride of 22 in Kent county; and a groom of 62 to a bride of 19 in Macomb county. On the other hand there were quite a number of marriages where the bride was many years older than the groom. Of these, the most noteworthy differences in the ages, were a groom of 51 to a bride of 74 in Monroe county; and a groom of 33 to a bride of 55 in Van Buren county.

TABLE 42.—*Exhibiting the Number of each Sex, at each Period of Age, Married during the Year 1885, and the Per cent of Brides and of Bridegrooms at each Period of Age to Total at all Ages.*

Age of Males, 1885.	Age of females, 1885.														Total males.	Per cent of grooms at each age.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.		
Under 20.....	329	66	9	—	—	—	—	—	—	—	—	—	—	1	405	2.70
20 to 25.....	2,986	2,346	336	54	10	2	—	—	—	—	—	—	—	14	5,748	38.28
25 to 30.....	1,482	2,098	922	141	47	10	1	1	—	—	—	—	—	10	4,712	31.38
30 to 35.....	326	619	437	200	61	24	9	1	1	—	—	—	—	2	1,680	11.19
35 to 40.....	118	223	259	142	88	35	11	2	—	2	—	—	—	2	882	5.87
40 to 45.....	25	82	114	104	87	59	25	12	1	—	—	—	—	2	511	3.40
45 to 50.....	10	38	51	55	91	53	35	15	4	3	—	—	—	1	356	2.37
50 to 55.....	5	11	21	21	43	47	43	32	14	5	—	1	—	—	243	1.62
55 to 60.....	4	9	9	6	22	25	29	30	19	2	2	1	—	—	158	1.05
60 to 65.....	2	5	4	10	8	22	16	21	18	13	6	2	—	—	127	.85
65 to 70.....	—	2	1	—	4	16	12	16	8	13	9	4	1	—	86	.57
70 to 75.....	1	1	—	1	—	1	5	6	2	8	6	3	2	1	37	.25
75 to 80.....	—	—	—	2	—	1	—	2	2	1	2	3	2	—	15	.10
80 and over.....	—	—	—	—	—	1	—	—	—	1	—	1	—	—	3	.02
Unknown.....	—	2	—	1	—	—	—	—	—	—	—	—	—	50	53	.35
Total females.	5,288	5,502	2,163	737	461	296	186	138	69	48	25	15	5	83	15,016	—
Per cent of brides at each age....	35.22	36.64	14.40	4.91	3.07	1.97	1.34	.92	.46	.32	.17	.10	.03	.55	—	100.00

TABLE 43.—*Exhibiting, by Counties, the Number of Marriages in Michigan for the Years 1883, 1884, and 1885; the Number as first returned, and the Number returned since Compilation for the Years 1883 and 1884; the Number of Inhabitants in 1884, and the per cent of Marriages in 1885 to Population in 1884.*

State and Counties.	Marriages.							Population 1884, represented by Marriages in 1885.	Number of Inhabitants in 1884 to one Marriage in 1885.	Per cent of Marriages in 1885 to Population in 1884.
	1883.			1884.			1885.			
	Number as first re- turned and com- piled.	Number returned since first com- pilation.	Number returned previous to No- vember 1, 1886.	Number as first re- turned and com- piled.	Number returned since first com- pilation.	Number returned previous to No- vember 1, 1886.				
State	16,420	658	17,078	15,002	719	15,721	15,016	1,853,658	123	.81
Alcona	32		32	19	1	20	32	4,028	126	.79
Alger							3	a		
Allegan	384		384	331		331	324	38,666	119	.84
Alpena	148	1	149	93	6	99	133	12,683	95	1.05
Antrim	75	4	79	77		77	86	8,761	102	.98
Arenac	14	2	16	20		20	15	4,027	268	.37
Baraga	10		10	17		17	15	3,039	203	.49
Barry	207	8	215	195	1	196	209	24,102	115	.87
Bay	352	14	366	343	2	345	307	51,221	167	.90
Benzie	31		31	25		25	45	4,389	98	1.03
Berrien	554	1	555	535	4	539	432	37,776	87	1.14
Branch	292	11	303	217	63	280	281	27,661	98	1.02
Calhoun	328	20	348	364	7	371	342	41,585	122	.82
Cass	203	5	208	229	11	240	208	21,202	102	.98
Charlevoix	68	3	71	57		57	47	9,275	197	.51
Cheboygan	89		89	74		74	80	9,946	124	.80
Chippewa	37	1	38	64		64	69	8,422	122	.82
Clare	31	1	32	49		49	52	5,549	107	.94
Clinton	203		203	188		188	202	27,135	134	.74
Crawford	20		20	19		19	19	2,389	126	.80
Delta	103		103	80	3	83	79	9,992	126	.79
Eaton	244	6	250	237		237	283	31,802	112	.89
Emmet	83	2	85	57	1	58	57	7,944	139	.72
Genesee	323	11	334	293	34	327	289	38,776	134	.75
Gladwin	4		4	13	3	16	19	1,539	81	1.23

a Organized since Census was taken.

TABLE 43.—CONTINUED.—*Marriages, Corrected by Counties.*

Counties.	Marriages.						Population 1884, represented by Marriages in 1885.	Number of Inhabitants in 1884 to one Marriage in 1885.	Per cent of Marriages in 1885 to Population in 1884.	
	1883.			1884.						1885.
	Number as first re- turned and com- piled.	Number returned since first com- pilation.	Number returned previous to No- vember 1, 1886.	Number as first re- turned and com- piled.	Number returned since first com- pilation.	Number returned previous to No- vember 1, 1886.				
							Number returned.			
Grand Traverse	78	5	83	70		70	85	12,092	142	.70
Gratiot	208		208	157	4	161	210	25,049	119	.84
Hillsdale	377	17	394	351	6	357	341	31,686	93	1.08
Houghton	221		221	237	1	238	193	26,146	135	.74
Huron	155	7	162	129	15	144	114	24,521	215	.46
Ingham	294	61	345	264	60	324	301	34,999	116	.86
Ionia	312	18	330	269	15	284	282	32,559	115	.87
Iosco	85	26	111	98	5	103	86	10,602	123	.81
Iron							7	a		
Isabella	126	2	128	110	2	112	142	16,011	112	.89
Jackson	456	1	457	390	12	402	367	45,232	123	.81
Kalamazoo	288	53	341	283	70	353	248	35,281	142	.70
Kalkaska	21		21	26		26	23	4,493	195	.51
Kent	881	83	964	725	131	856	848	84,600	100	1.00
Keweenaw	31	1	32	21		21	17	4,667	275	.36
Lake	33		33	37	3	40	55	7,539	137	.73
Lapeer	262	20	282	220	13	233	238	30,057	126	.79
Leelanaw	48		48	62		62	46	7,128	155	.65
Lenawee	475	17	492	461	29	490	505	49,584	98	1.02
Livingston	156	4	160	136	7	143	124	21,568	174	.57
Mackinac	34		34	23		23	29	5,171	178	.56
Macomb	252	1	253	223	1	224	241	31,293	130	.77
Manistee	270	5	275	201		201	155	19,875	128	.78
Manitou	3		3	3		3	7	1,198	171	.58
Marquette	267	7	274	169	22	191	141	31,397	223	.45
Mason	144		144	118		118	80	13,221	165	.61
Mecosta	231	2	233	179	2	181	204	20,597	101	.99
Menominee	161	8	169	155	2	157	157	19,120	122	.82
Midland	88	2	90	79	1	80	85	8,776	103	.97
Missaukee	12	1	13	15		15	22	3,386	154	.65
Monroe	387	4	391	342	11	353	333	33,353	100	1.00
Montcalm	356	2	358	286	16	302	297	35,356	119	.84

a Organized since Census was taken.

TABLE 43.—CONTINUED.—*Marriages, Corrected by Counties.*

Counties.	Marriages.						Population in 1884, represented by Marriages in 1885.	Number of Inhabitants in 1884 to one Marriage in 1885.	Per cent of Marriages in 1885 to Population in 1884.	
	1883.			1884.						1885.
	Number as first re- turned and com- piled.	Number returned since first com- pilation.	Number returned previous to No- vember 1, 1886.	Number as first re- turned and com- piled.	Number returned since first com- pilation.	Number returned previous to No- vember 1, 1886.				
							Number returned.			
Montmorency	1		1	4		4	7	845	121	.83
Muskegon	387		387	395		395	303	37,554	124	.81
Newaygo	173		173	157	1	158	111	18,996	171	.58
Oakland	315	10	325	290	20	310	281	41,100	146	.68
Oceana	129		129	110		110	112	14,519	130	.77
Ogemaw	21		21	25		25	25	3,637	145	.69
Ontonagon	17		17	15		15	18	4,836	269	.37
Osceola	142	14	156	131	5	136	101	14,001	139	.72
Oscoda	13		13	8		8	11	1,374	125	.80
Otsego	23	1	24	31		31	40	3,906	98	1.02
Ottawa	350	7	357	336	10	346	275	36,225	132	.76
Presque Isle	21	1	22	37		37	28	4,064	145	.69
Roscommon	17	2	19	10		10	13	2,588	199	.50
Saginaw	629	56	685	574		574	483	74,795	155	.65
Sanilac	190	2	192	153	3	156	209	29,583	142	.71
Schoolcraft	25		25	19		19	38	3,846	101	.99
Shiawassee	223	5	228	176	1	177	227	28,078	124	.81
St. Clair	377	20	397	394	8	402	382	46,783	122	.82
St. Joseph	339	7	346	290	18	308	344	26,277	76	1.31
Tuscola	241	16	257	230	19	249	231	30,726	133	.75
Van Buren	281	2	283	250	2	252	267	30,341	114	.88
Washtenaw	333	17	350	320	14	334	293	41,694	142	.70
Wayne	1,561	60	1,621	1,494	53	1,547	1,506	188,966	125	.80
Wexford	75	1	76	118	1	119	100	10,518	105	.95

DEATHS, 1885.

That the present registration laws of Michigan do not fully accomplish the object for which they were enacted, the securing of accurate returns of births, marriages and deaths, is again made manifest by the returns of deaths for the year 1885, which are officially reported to this office at 16,646. This is 1,410 fewer deaths than were reported for 1884, and if calculated upon the basis of the population of 1884, with no allowance for increase, is at the rate of 9.02 deaths only per thousand of population. The official death-rate in Rhode Island in 1884 was 16.10 in every thousand; in Massachusetts in 1885 it was 19.61 per thousand, and the average for thirty-one years in that State has been 19.33 per thousand, being more than double the rate officially returned for Michigan. The death-rate for England and most foreign countries making returns of deaths is somewhat higher than that of Massachusetts.

The following tabulated exhibit, taken from the first volume of the census of 1884, clearly illustrates the fact that omissions in the enumeration of births and deaths are in proportion to the length of time elapsing between their occurrence and their enumeration. Deaths which occurred in the first seven months of the census year, June to December, 1883, are in excess by registration returns because taken from one to two months earlier than the census returns. For the same reason the deaths which occurred in the last five months of the census year, January to May, 1884, are in excess by census returns because taken some eleven months earlier than were those of the registration reports.

DEATHS—BY MONTHS.

89

Deaths.	Total number of deaths.	Months.												
		1883.							1884.					
		June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	Unknown.
Deaths as per census.....	19,979	1,348	1,353	1,651	1,554	1,308	1,323	1,448	1,779	1,795	2,069	2,059	2,183	109
Deaths as per registration reports.....	16,880	1,254	1,439	1,651	1,613	1,401	1,397	1,598	1,087	1,181	1,421	1,382	1,456	----
Census returns in excess	3,099	94	-----	-----	-----	-----	-----	-----	692	614	648	677	727	109
Registration returns in excess	-----	-----	86	-----	59	93	74	150	-----	-----	-----	-----	-----	-----

From the above it is quite evident that a considerable addition should be made to the number of deaths as officially reported, and this has been done in Table 44 and in the tabulated exhibit following, which shows the death-rate in Michigan, both as regards the number returned and the number as corrected for omissions in the enumeration. After the correction has been made to the returns of deaths, the death-rate is evidently too small, being only 12.3 to each thousand living.

	Inhabitants in 1884 represented by Deaths in 1885.	Deaths as Returned.	Deaths Corrected for Omissions in Enumerating.	Per Cent of Deaths to Inhabitants.	
				Deaths as Returned.	Deaths Corrected for Omissions.
Totals	1,845,992	16,646	22,704	.90	1.23

The average number of deaths in Michigan for certain periods of time, for the year 1885, was as follows:

Periods of time.	Deaths as Returned.	Corrected for Omissions.
Per quarter	4,162	5,676
Per month	1,387	1,892
Per week	320	437
Per day	46	62

The number of deaths by quarters, showing the influence of the seasons upon the mortality in Michigan, is given in Table 44. The table includes both the original returns and those after the correction is made for omissions. The year 1885 proves no exception to the usual showing, which has given the largest proportion of deaths to the quarter ending with September, and the least to the quarter ending with March. By the corrected returns, however, 1885 gives the largest proportion of deaths to the first quarter, which is unusual.

TABLE 44.—Deaths in Michigan by Quarters of the Year, exhibiting the Number and Per Cent of Total as returned and as Corrected for the Years 1883-1885, and the Average for Ten Years, 1875-1884.

Totals and Months with which Quarters end.		1883.		1884.		1885.		Av. for 10 years, 1875-1884.	
		Num-ber.	Per Cent of Total.	Num-ber.	Per Cent of Total.	Num-ber.	Per Cent of Total.	Num-ber.	Per Cent of Total.
Totals.....		16,906	100.00	18,056	100.00	16,646	100.00	15,139	100.00.
As Returned.	March.....	3,574	21.14	3,689	20.43	3,819	22.94	3,045	20.11
	June.....	4,184	24.75	4,104	22.73	3,945	23.70	3,444	22.75.
	September.....	4,703	27.82	5,314	29.43	4,408	26.48	4,473	29.55.
	December.....	4,396	26.00	4,893	27.10	4,418	26.54	4,126	27.25
	Unknown.....	49	.29	56	.31	56	.34	51	.34.
Average *.....		4,227	25.00	4,514	25.00	4,162	25.00	3,785	25.00.
Totals.....		23,640	100.00	25,133	100.00	22,704	100.00	22,319	100.00.
As corrected or Omissions.	March.....	5,660	23.94	5,836	23.22	5,844	25.74	5,194	23.27
	June.....	6,158	26.05	6,030	23.99	5,637	24.83	5,413	24.25
	September.....	6,352	26.87	7,166	28.51	5,810	25.59	6,361	28.50.
	December.....	5,421	22.93	6,045	24.06	5,357	23.59	5,300	23.75
	Unknown.....	49	.21	56	.23	56	.25	51	.23.
Average *.....		5,910	25.00	6,283	25.00	5,676	25.00	5,580	25.00.

* Including deaths in unknown month.

The number and per cent of deaths as returned by months, arranged in order, those having the greatest number of deaths first, are shown in Table 45. Usually the month of August heads the list, but this year it is relegated to fourth place; while December comes first for the second time in the history of State registration, the other year being 1882. September as usual stands second.

TABLE 45.—*Exhibiting, by Months, the Number and Per Cent of Deaths returned for the Years 1883, 1884, 1885, and the Average for Ten Years 1875-1884, the months arranged in order by number of deaths, greatest first.*

Order.	1883.			1884.			1885.			Average for 10 Years, 1875-1884.		
	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.	Year and Months.	Number.	Per Ct. of Total.
	Year...	16,906	100.00	Year...	18,056	100.00	Year...	16,646	100.00	Year...	15,139	100.00
1	Aug....	1,651	9.77	Aug....	1,917	10.62	Dec....	1,564	9.40	Aug. ..	1,624	10.73
2	Sept. ..	1,613	9.54	Sept. ..	1,877	10.40	Sept. ..	1,559	9.37	Sept....	1,580	10.43
3	Dec.	1,598	9.45	Oct.	1,752	9.70	Oct.	1,492	8.96	Dec....	1,441	9.52
4	Apr.	1,500	8.87	Dec.	1,615	8.95	Aug....	1,486	8.93	Oct.	1,397	9.23
5	July....	1,439	8.51	Nov.	1,526	8.45	Apr....	1,474	8.85	Nov.	1,287	8.50
6	May....	1,430	8.46	July....	1,520	8.42	Mar....	1,421	8.54	July....	1,268	8.38
7	Oct.....	1,401	8.29	May....	1,456	8.06	July....	1,363	8.19	Apr....	1,207	7.97
8	Nov....	1,397	8.26	Mar....	1,421	7.87	Nov....	1,362	8.18	May....	1,197	7.91
9	Mar....	1,374	8.13	Apr.	1,382	7.65	May....	1,286	7.72	Mar. ..	1,169	7.72
10	June ..	1,254	7.42	June ..	1,266	7.01	Feb....	1,267	7.61	June ..	1,041	6.88
11	Feb....	1,133	6.70	Feb....	1,181	6.54	June ..	1,185	7.12	Feb....	989	6.53
12	Jan....	1,067	6.31	Jan....	1,087	6.02	Jan....	1,131	6.79	Jan....	888	5.86
	Unk. ..	49	.29	Unk. ..	56	.31	Unk. ..	56	.34	Unk. ..	51	.34
	Av.....	1,409	8.33	Av.....	1,505	8.33	Av.....	1,387	8.33	Av.....	1,262	8.33

SEX OF DECEDENTS.

Table 46 shows the number and proportion of males and females among the decedents in Michigan for the years 1872 to 1885, inclusive, and the average for the fourteen years. The excess of male deaths, for 1885, is 1,456, the relative proportion being 119 male to every 100 female deaths. It is an interesting fact that while the proportion of male deaths is nearly one-sixth greater than the female deaths, and the proportion of male births to female births only about one-twelfth greater, yet the male population appears to show a more rapid increase than the female. It appears from the records that in the ten years ending with 1885 there were born 190,246 males and 176,459 females, the excess of males being 13,787; for the same period of years the deaths were reported at 83,078 males to 72,417 females, the excess of male deaths being 10,656. Subtracting the excess of male deaths from the excess of male births, we have an actual increase of males over females of 3,131 in ten years, or an average of 313 per year.

TABLE 46.—*Number and Per Cent of Deaths of Males and of Females returned in Michigan for the Years 1872-1885. (Unknown sex excluded.)*

Years.	Deaths of Males, as Returned.	Deaths of Females, as Returned.	Deaths of Males to 100 Deaths of Females.	Per Cent of each Sex to Total of Both Sexes.			
				Males.	Females.	Excess of the Sexes.	
						Males.	Females.
1872.....	7,182	6,162	116.6	53.82	46.18	7.64	.....
1873.....	7,651	6,590	116.1	53.73	46.27	7.46	.....
1874.....	6,665	5,804	114.8	53.45	46.55	6.90	.....
1875.....	8,448	5,484	117.6	54.04	45.96	8.08	.....
1876.....	6,756	5,761	117.3	53.97	46.03	7.94	.....
1877.....	6,827	6,040	113.0	53.06	46.94	6.12	.....
1878.....	6,632	6,082	109.0	52.16	47.84	4.32	.....
1879.....	7,522	6,848	109.8	52.34	47.66	4.68	.....
1880.....	8,645	7,410	116.7	53.85	46.15	7.70	.....
1881.....	10,263	8,910	115.2	53.53	46.47	7.06	.....
1882.....	8,713	7,664	113.7	53.20	46.80	6.40	.....
1883.....	9,101	7,748	117.5	54.02	45.98	8.04	.....
1884.....	9,589	8,385	114.4	53.35	46.65	6.70	.....
1885.....	9,025	7,569	119.2	54.39	45.61	8.78	.....
Average.....	7,930	6,890	115.1	53.51	46.49	7.03	.....

OMISSIONS IN THE ENUMERATION OF DEATHS.

These omissions arise from the fact that the statistics are not gathered until the various supervisors are making their annual assessments, which brings the time from four to sixteen months after their occurrence. It is not surprising that where such a length of time elapses a great many deaths will be forgotten or neglected, and the remoter the time of the death the more probable the chances are that it may be overlooked. It is therefore customary to add the per cent graded according to the length of time that has elapsed. The order of the months in Table 47 is changed from that of Table 45, because the additions for omissions are thus graded.

DEATHS—BY MONTHS, CORRECTED.

TABLE 47.—*Exhibiting, by Months, the Number and Per Cent of Deaths, as Corrected for Omissions in the Enumeration, for the Years 1883-1885, and the Average for Ten Years, 1875-1884. Months arranged in order by Number, greatest first.*

Order.	1883.			1884.			1885.			Average for 10 Years, 1875-1884.		
	Months.	Number.	Per Cent of Total.	Months.	Number	Per Cent of Total.	Months.	Number	Per Cent of Total.	Months.	Number	Per Cent of Totals.
	Total..	23,640	100.00	Total..	25,133	100.00	Total..	22,704	100.00	Total..	22,319	100.00
1	April..	2,263	9.57	Aug...	2,590	10.30	April..	2,155	9.49	Aug....	2,313	10.36
2	Aug....	2,232	9.44	Sept...	2,463	9.80	Mar....	2,128	9.37	Sept...	2,177	9.75
3	Mar....	2,127	9.00	Oct....	2,231	8.88	Sept...	2,002	8.82	April..	1,951	8.74
4	Sept...	2,118	8.96	Mar....	2,199	8.75	Aug....	1,961	8.64	Mar....	1,944	8.71
5	May....	2,101	8.89	May...	2,138	8.51	Feb....	1,942	8.55	May...	1,878	8.42
6	July....	2,002	8.47	July...	2,113	8.41	Oct....	1,863	8.20	July...	1,871	8.38
7	Dec....	1,911	8.08	April..	2,083	8.29	July...	1,847	8.14	Oct....	1,861	8.34
8	Feb....	1,798	7.61	Dec....	1,930	7.68	Dec....	1,842	8.11	Dec....	1,784	7.99
9	June...	1,794	7.59	Nov...	1,884	7.49	May...	1,834	8.08	Feb....	1,692	7.58
10	Oct....	1,785	7.55	Feb....	1,871	7.44	Jan....	1,774	7.81	Nov...	1,655	7.42
11	Jan....	1,735	7.34	June...	1,809	7.20	Nov...	1,652	7.28	June...	1,584	7.10
12	Nov....	1,725	7.29	Jan....	1,766	7.03	June...	1,648	7.26	Jan....	1,558	6.98
	Unk....	49	.21	Unk....	56	.22	Unk....	56	.25	Unk....	51	.23
	Av....	1,970	8.33	Av....	2,094	8.33	Av....	1,892	8.33	Av....	1,860	8.33

* Including deaths in unknown month.

AGES OF PERSONS WHO DIED IN MICHIGAN IN 1885.

In Tables 48 and 49 are given the compilations of deaths at different periods of age. For seven of the past twelve years over one-fourth of the deaths have been of children under one year of age, and while the per cent for 1885 is 1.12 less than in 1884, it is still .33 of one per cent above the average for the twelve years, 1874-1885, which was 25.77 per cent. This rate is considerably above that of Massachusetts, which was 20.47 per cent for the same period, a difference of 5.3 per cent in favor of Massachusetts. It would be a matter of general interest and of some importance to know the reason for this greater infant mortality in Michigan as compared with Massachusetts.

This year proves no exception to the rule of an excess of female deaths in the period of fifteen to forty years of age. Occasionally some other period will show an excess of female deaths, but usually the deaths in such periods are too few and uncertain to form a basis for comparisons, as may be noticed in the reports for 1884 and 1885 for the period of 100 and over.

By an examination of Table 49 it will be seen that though the deaths under one are above the average for twelve years, all deaths under five are below that average. The deaths for the other periods given in that table are above the average.

TABLE 48.—*Exhibiting, by Sex and by Age in Periods of Years, the Number and Proportion of Persons returned as having died in Michigan during the Year 1885; also the Excess of Persons of each Sex.*

Ages in Years and Periods.	Number of Deaths, 1885.				Per Ct. of Deaths at each age to Total at all ages.			Per Cent of each Sex to Total of both Sexes.				Excess of the Sexes by Number.		Males to 100 Females.
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Males.	Females.	Excess.		Males.	Females.	
										Males.	Females.			
All ages.....	16,646	9,025	7,569	52	100.00	100.00	100.00	54.39	45.61	8.78	-----	1,456	-----	119.24
Under 1.....	4,345	2,493	1,816	36	26.10	27.02	23.99	57.86	42.14	15.72	-----	677	-----	137.28
1 to 2.....	828	433	395	----	4.97	4.80	5.22	52.29	47.71	4.58	-----	38	-----	109.62
2 to 3.....	489	277	211	1	2.94	3.07	2.79	56.76	43.24	13.52	-----	66	-----	131.28
3 to 4.....	335	174	161	----	2.01	1.93	2.13	51.94	48.06	3.88	-----	13	-----	108.07
4 to 5.....	263	139	124	----	1.58	1.54	1.64	52.85	47.15	5.70	-----	15	-----	112.10
Under 5.....	6,260	3,516	2,707	37	37.61	38.96	35.76	56.50	43.50	13.00	-----	809	-----	129.89
5 to 10.....	817	429	388	----	4.91	4.75	5.13	52.51	47.49	5.02	-----	41	-----	110.57
10 to 15.....	501	256	245	----	3.01	2.83	3.24	51.10	48.90	2.20	-----	11	-----	104.49
15 to 20.....	587	264	323	----	3.53	2.93	4.27	44.97	55.03	-----	10.06	-----	59	81.73
20 to 25.....	751	347	404	----	4.51	3.84	5.34	46.21	53.79	-----	7.58	-----	57	85.89
25 to 30.....	739	338	401	----	4.44	3.75	5.30	45.74	54.26	-----	8.52	-----	63	84.29
30 to 35.....	567	261	306	----	3.41	2.89	4.04	46.03	53.97	-----	7.94	-----	45	85.29
35 to 40.....	594	295	299	----	3.57	3.27	3.95	49.66	50.34	-----	.68	-----	4	98.66
40 to 45.....	521	264	257	----	3.13	2.93	3.39	50.67	49.33	1.34	-----	7	-----	102.72
45 to 50.....	518	272	246	----	3.11	3.01	3.25	52.51	47.49	5.02	-----	26	-----	110.57
50 to 55.....	541	311	230	----	3.25	3.45	3.04	57.49	42.51	14.98	-----	81	-----	135.22
55 to 60.....	579	329	250	----	3.48	3.65	3.30	56.82	43.18	13.64	-----	79	-----	131.60
60 to 65.....	633	372	261	----	3.80	4.12	3.45	58.77	41.23	17.54	-----	111	-----	142.53
65 to 70.....	688	412	276	----	4.13	4.56	3.64	59.88	40.12	19.76	-----	136	-----	149.28
70 to 75.....	687	392	295	----	4.13	4.34	3.90	57.06	42.94	14.12	-----	97	-----	132.88
75 to 80.....	645	365	280	----	3.88	4.04	3.70	56.59	43.41	13.18	-----	85	-----	130.36
80 to 85.....	441	274	167	----	2.65	3.04	2.20	62.13	37.87	24.26	-----	107	-----	164.07
85 to 90.....	242	137	105	----	1.45	1.52	1.39	56.61	43.39	13.22	-----	32	-----	130.48
90 to 95.....	67	30	37	----	.40	.33	.49	44.78	55.22	-----	10.44	-----	7	81.08
95 to 100.....	32	22	10	----	.19	.24	.13	68.75	31.25	37.50	-----	12	-----	220.00
100 and over.....	12	8	4	----	.07	.09	.05	66.67	33.33	33.34	-----	4	-----	200.00
Unknown ages..	224	131	78	15	1.35	1.45	1.03	62.68	37.32	25.36	-----	53	-----	167.95

TABLE 49.—*Exhibiting the Per Cent of Deaths at Different Ages, for the Years 1874–1885, and the average for Twelve Years.*

Years.	Under 1 Year.	Under 5 Years.	20 to 30.	All Others.
1874.....	26.98	41.10	9.05	49.85
1875.....	27.59	41.39	8.89	49.72
1876.....	27.24	40.72	8.58	50.70
1877.....	26.11	40.30	8.68	51.02
1878.....	25.22	39.22	8.43	52.35
1879.....	24.68	39.52	8.23	52.25
1880.....	24.66	39.95	7.96	52.09
1881.....	24.20	40.63	9.00	50.37
1882.....	24.38	38.81	8.72	52.47
1883.....	24.83	38.26	9.37	52.37
1884.....	27.22	40.05	9.08	50.37
1885.....	26.10	37.61	8.95	53.44
Average.....	25.77	39.80	8.75	51.46

DEATHS BY MONTHS AT DIFFERENT AGES.

In Table 50 may be seen the deaths arranged by periods of age and by months, thereby enabling the reader to study the influence of seasons and age upon mortality. The variation of the different months of the deaths of children aged under one year is not as great as in 1883 or 1884. In the latter year the lowest month was 5.08 per cent in January, and the highest 14.76, for August. In 1885 the lowest is June, with 6.50, while the highest is August again, with 11.17 per cent; the extremes of fluctuation being but 4.67 per cent, as against 9.68 in 1884.

For the period under 5 August shows the largest per cent of deaths; from 5 to 10 the greatest per cent falls to December; from 10 to 20 to September; from 20 to 50 to April, and for 50 and over to December. This is not a material change from that of 1884, except in the period of 20 to 50, the largest proportion in 1884 was in November instead of in April. The deductions heretofore drawn from this table are that the months of extreme heat are the most fatal to children, while the cold months have somewhat more than their proportionate number of deaths among the aged. These deductions are corroborated to some extent by the figures of this table.

Tables 51 and 52 contain very much the same information, except that it is given more in detail, the periods being reduced to their lowest terms, to years for adults, and years and months for children and infants.

VITAL STATISTICS OF MICHIGAN, 1885.

TABLE 50.—*The Relation of the Deaths at Different Periods of Age to Deaths at All Ages, by Months; and for the same Period of Age, the Relation of the Deaths in each Month to the Deaths in the Year 1885.*

Deaths by Ages in Periods of Years.	Year, 1885. *	Months, 1885.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
All Ages.....	16,680	1,131	1,267	1,421	1,474	1,298	1,185	1,363	1,486	1,559	1,492	1,362	1,564
Under 1.....	4,841	305	314	349	372	309	282	444	485	426	367	308	362
Per Cent of all Ages.....	26.17	26.97	24.78	25.97	25.24	24.03	23.80	32.58	32.64	27.33	24.60	22.47	23.15
Per Cent of Deaths, 1885.....	100.00	7.03	7.23	8.50	8.57	7.12	6.50	10.23	11.17	9.81	8.45	7.06	8.34
Under 5.....	6,255	447	477	537	529	438	407	584	671	629	541	455	540
Per Cent of All Ages.....	37.70	39.52	37.65	37.79	35.89	34.06	34.35	42.84	45.16	40.35	36.26	33.41	34.53
Per Cent of Deaths, 1885.....	100.00	7.15	7.62	8.58	8.46	7.00	6.51	9.34	10.73	10.06	8.65	7.27	8.63
5 to 10.....	815	76	69	51	58	53	69	56	67	70	80	75	91
Per Cent of All Ages.....	4.91	6.72	5.45	3.59	3.93	4.12	5.82	4.11	4.51	4.49	5.36	5.50	5.82
Per Cent of Deaths, 1885.....	100.00	9.32	8.47	6.26	7.12	6.50	8.47	6.87	8.22	8.59	9.82	9.20	11.16
10 to 20.....	1,084	74	79	90	75	95	72	90	103	108	101	99	98
Per Cent of All Ages.....	6.53	6.54	6.23	5.09	5.09	7.39	6.08	6.60	6.93	6.93	6.77	7.27	2.29
Per Cent of Deaths, 1885.....	100.00	6.83	7.29	8.30	6.92	8.77	6.64	8.30	9.50	9.96	9.32	9.13	9.04
20 to 50.....	3,686	223	267	343	356	308	310	294	287	327	327	301	353
Per Cent of All Ages.....	22.22	19.72	21.07	24.14	24.15	23.95	26.16	20.84	19.31	20.97	21.92	22.10	22.57
Per Cent of Deaths, 1885.....	100.00	6.05	7.24	9.31	9.66	8.36	8.41	7.70	7.79	8.87	8.87	8.17	9.57
50 and over.....	4,554	306	362	394	438	378	308	335	343	404	414	418	454
Per Cent of All Ages.....	27.45	27.06	28.57	29.73	29.72	29.39	25.99	24.53	23.06	25.91	27.75	30.69	29.03
Per Cent of Deaths, 1885.....	100.00	6.72	7.95	8.65	9.62	8.30	6.76	7.36	7.53	8.87	9.09	9.18	9.97
Unknown ages.....	196	5	13	6	18	14	19	14	15	21	29	14	28
Per Cent of All Ages.....	1.18	.44	1.03	.42	1.22	1.09	1.60	1.03	1.01	1.35	1.94	1.03	1.79
Per Cent of Deaths, 1885.....	100.00	2.55	6.63	3.06	9.18	7.14	9.70	7.14	7.65	10.72	14.80	7.14	14.29

* Excluding unknown month.

TABLE 51.—*Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year, and in each Month of the Year 1885.*

Ages in Periods of Years.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All ages.....	Total	16,646	1,131	1,267	1,421	1,474	1,286	1,185	1,363	1,486	1,559	1,492	1,362	1,564	56
	Males	9,025	590	692	758	836	668	665	732	815	840	818	736	855	20
	Females...	7,569	536	572	658	634	613	519	627	669	717	671	624	707	22
	Unknown..	52	5	3	5	4	5	1	4	2	2	3	2	2	14
Under 1.....	Total	4,345	305	314	369	372	309	282	444	485	426	367	306	362	4
	Males	2,493	164	194	216	231	173	169	251	265	227	230	184	188	1
	Females...	1,816	136	118	148	137	132	112	189	218	197	134	120	172	3
	Unknown..	36	5	2	5	4	4	1	4	2	2	3	2	2	---
All under 5....	Total	6,260	447	477	537	529	438	407	584	671	629	541	455	540	5
	Males	3,516	235	279	306	321	237	249	319	359	332	325	259	293	2
	Females...	2,707	207	195	226	204	197	157	261	310	295	213	194	245	3
	Unknown..	37	5	3	5	4	4	1	4	2	2	3	2	2	---
5 to 10	Total	817	76	69	51	58	53	69	56	67	70	80	75	91	2
	Males	429	39	36	30	27	21	37	31	40	46	40	35	45	2
	Females...	388	37	33	21	31	32	32	25	27	24	40	40	46	---
10 to 15	Total	501	33	44	37	29	33	31	43	44	55	60	47	44	1
	Males	256	16	21	21	17	16	18	26	25	28	33	17	18	---
	Females...	245	17	23	16	12	17	13	17	19	27	27	30	26	1
15 to 20	Total	587	41	35	53	46	62	41	47	59	53	41	52	54	3
	Males	264	18	18	26	17	34	17	18	25	28	16	20	27	---
	Females...	323	23	17	27	29	28	24	29	34	25	25	32	27	3
20 to 25	Total	751	37	58	71	79	51	73	65	65	68	71	55	56	2
	Males	347	16	31	31	37	16	31	27	31	33	37	25	32	---
	Females...	404	21	27	40	42	35	42	38	34	35	34	30	24	2
25 to 30	Total	739	39	61	78	67	59	51	52	56	57	67	73	79	---
	Males	338	18	31	36	33	25	23	24	28	18	22	35	45	---
	Females...	401	21	30	42	34	34	28	28	28	39	45	38	34	---
30 to 35	Total	567	35	34	50	64	44	50	46	42	52	43	51	56	---
	Males	261	16	9	19	29	17	20	25	22	16	25	36	27	---
	Females...	306	19	25	31	35	27	30	21	20	36	18	15	29	---

TABLE 51.—CONTINUED.—Deaths by Periods of Age, by Sex, by Months.

Ages in Periods of Years.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
35 to 40	Total.....	594	33	39	59	53	57	53	49	43	53	53	47	54	1
	Males.....	295	17	17	27	31	29	30	23	21	29	23	26	21	1
	Females...	299	16	22	32	22	28	23	26	22	24	30	21	33	...
40 to 45	Total.....	521	41	36	38	51	47	43	39	45	51	34	40	56	...
	Males.....	264	16	17	18	24	24	22	17	18	31	19	21	37	...
	Females...	257	25	19	20	27	23	21	22	27	20	15	19	19	...
45 to 50	Total.....	518	38	39	47	42	50	40	33	36	46	59	35	52	1
	Males.....	272	23	19	23	15	23	16	13	24	20	35	22	34	...
	Females...	246	15	20	19	27	27	24	20	12	26	24	13	18	1
50 to 55	Total.....	541	27	40	50	47	53	48	43	48	52	41	42	49	1
	Males.....	311	18	27	25	32	29	29	21	22	30	23	23	32	...
	Females...	230	9	13	25	15	24	19	22	26	22	18	19	17	1
55 to 60	Total.....	579	40	43	44	57	52	45	53	50	49	42	45	57	2
	Males.....	329	25	26	25	38	30	24	32	26	33	20	19	30	1
	Females...	250	15	17	19	19	22	21	21	24	16	22	26	27	1
60 to 65	Total.....	633	56	57	50	57	64	45	42	47	57	62	39	57	...
	Males.....	372	36	30	28	38	31	32	23	38	29	32	25	30	...
	Females...	261	20	27	22	19	33	13	19	9	28	30	14	27	...
65 to 70	Total.....	688	46	55	53	72	49	42	46	49	65	68	74	69	...
	Males.....	412	29	32	28	45	34	25	32	34	37	34	45	37	...
	Females...	276	17	23	25	27	15	17	14	15	28	34	29	32	...
70 to 75	Total.....	687	38	55	65	64	62	38	54	46	62	66	69	66	2
	Males.....	392	19	33	33	36	33	21	33	29	37	42	36	39	1
	Females...	295	19	22	32	28	29	17	21	17	25	24	33	27	1
75 to 80	Total.....	645	50	50	60	64	43	42	48	48	48	53	63	71	5
	Males.....	365	23	27	32	40	29	26	28	29	30	27	33	39	2
	Females...	280	27	23	28	24	14	16	20	19	18	26	30	32	3
80 to 85	Total.....	441	22	27	40	45	39	30	27	28	42	48	47	43	3
	Males.....	274	12	19	24	24	21	19	19	16	31	31	26	29	3
	Females...	167	10	8	16	21	18	11	8	12	11	17	21	14	...
85 to 90	Total.....	242	20	21	21	21	13	14	16	15	22	25	25	29	...
	Males.....	137	10	6	12	13	8	9	8	10	14	15	14	18	...
	Females...	105	10	15	9	8	5	5	8	5	8	10	11	11	...
90 to 95	Total.....	67	5	7	9	5	3	1	3	7	6	4	8	9	...
	Males.....	30	2	3	2	2	2	...	1	6	1	2	4	5	...
	Females...	37	3	4	7	3	1	1	2	1	5	2	4	4	...

DEATHS BY AGES—BY MONTHS.

99

TABLE 51.—CONTINUED.—*Deaths by Periods of Age, by Sex, by Months.*

Ages in Periods of Years.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
95 to 100.....	Total.....	32	1	5	1	5	—	1	2	2	1	5	5	4	—
	Males.....	22	—	5	1	4	—	1	2	1	—	3	2	3	—
	Females...	10	1	—	—	1	—	—	—	1	1	2	3	1	—
100 and over...	Total.....	12	1	2	1	1	—	2	1	3	—	—	1	—	—
	Males.....	8	—	1	1	—	—	2	1	2	—	—	1	—	—
	Females...	4	1	1	—	1	—	—	—	1	—	—	—	—	—
Unknown.....	Total.....	224	5	13	6	18	14	19	14	15	21	29	14	28	28
	Males.....	131	2	5	5	13	9	14	9	9	17	14	12	14	8
	Females...	78	3	8	1	5	4	5	5	6	4	15	2	14	6
	Unknown..	15	—	—	—	—	1	—	—	—	—	—	—	—	14

TABLE 52.—*Exhibiting, by Sex and by Months, the Number Returned as having Died in Michigan during the Year 1885 at each and every Age, the Age stated in Twelfths of a Year for those under One Year, and in Years for those over One Year of Age.*

Ages in Years.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Under 1-12.....	Total.....	2,249	179	175	196	220	175	154	205	206	176	183	185	191	4
	Males.....	1,325	94	104	118	141	105	91	116	126	94	118	117	100	1
	Females...	888	80	69	73	75	66	62	85	78	80	62	66	89	3
	Unknown..	36	5	2	5	4	4	1	4	2	2	3	2	2	..
1-12.....	Total.....	337	13	24	44	25	30	21	28	31	39	30	18	34	..
	Males.....	180	6	16	29	11	19	14	15	13	15	16	8	18	..
	Females...	157	7	8	15	14	11	7	13	18	24	14	10	16	..
2-12.....	Total.....	247	12	14	13	16	17	16	33	35	34	21	15	21	..
	Males.....	138	5	7	4	12	7	8	20	18	21	17	4	15	..
	Females...	109	7	7	9	4	10	8	13	17	13	4	11	6	..
3-12.....	Total.....	289	18	18	19	20	18	18	42	51	29	26	9	21	..
	Males.....	156	9	13	10	11	9	11	23	30	11	14	5	10	..
	Females...	133	9	5	9	9	9	7	19	21	18	12	4	11	..
4-12.....	Total.....	203	13	15	15	11	15	14	22	36	20	17	9	16	..
	Males.....	112	9	8	7	8	6	8	15	17	11	10	6	7	..
	Females...	91	4	7	8	3	9	6	7	19	9	7	3	9	..
5-12.....	Total.....	177	11	6	18	10	6	10	21	19	22	24	15	15	..
	Males.....	99	6	5	13	7	2	7	11	8	14	11	7	8	..
	Females...	78	5	1	5	3	4	3	10	11	8	13	8	7	..
6-12.....	Total.....	211	13	25	7	15	10	13	24	26	32	18	9	19	..
	Males.....	125	8	21	4	5	6	6	13	13	20	14	6	9	..
	Females...	86	5	4	3	10	4	7	11	13	12	4	3	10	..
7-12.....	Total.....	160	11	7	17	18	5	9	19	23	15	15	10	11	..
	Males.....	96	9	5	10	10	4	8	13	12	7	9	5	4	..
	Females...	64	2	2	7	8	1	1	6	11	8	6	5	7	..

DEATHS—BY AGES, BY SEX, BY MONTHS.

101

TABLE 52.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year, 1885.	Months, 1885.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
3-12.....	Total.....	138	15	8	11	13	13	8	8	10	9	19	13	11	..
	Males.....	77	6	5	6	10	6	3	4	5	6	12	8	6	..
	Females...	61	9	3	5	3	7	5	4	5	3	7	5	5	..
9-12.....	Total.....	121	6	7	13	6	9	7	12	17	19	6	11	8	..
	Males.....	64	3	5	4	5	6	4	5	5	12	3	8	4	..
	Females...	57	3	2	9	1	3	3	7	12	7	3	3	4	..
10-12.....	Total.....	118	8	10	12	11	5	9	17	14	10	6	7	9	..
	Males.....	71	5	2	9	7	1	6	10	9	6	5	5	6	..
	Females...	47	3	8	3	4	4	3	7	5	4	1	2	3	..
11-12.....	Total.....	95	6	5	4	7	6	3	13	17	21	2	5	6	..
	Males.....	50	4	3	2	4	2	3	6	9	10	1	5	1	..
	Females...	45	2	2	2	3	4	...	7	8	11	1	...	5	..
1.....	Total.....	328	55	74	73	60	66	53	68	102	90	75	52	60	..
	Males.....	433	29	41	41	32	32	32	28	49	50	36	29	36	..
	Females...	395	26	33	32	28	34	21	40	53	40	40	23	25	..
2.....	Total.....	489	32	39	49	44	29	33	33	39	53	48	47	43	..
	Males.....	277	18	19	28	27	19	20	20	20	28	30	21	27	..
	Females...	211	14	19	21	17	10	13	13	19	25	18	26	16	..
3.....	Unknown..	1	...	1	...	...	...	...	...	...	...	...	...	...	..
	Total.....	395	32	32	26	31	22	17	22	26	36	31	27	33	..
	Males.....	174	14	16	12	20	8	13	11	13	16	19	13	19	..
4.....	Females...	161	18	16	14	11	14	4	11	13	20	12	14	14	..
	Total.....	263	23	18	20	22	12	22	17	19	24	20	23	42	1
	Males.....	139	10	9	9	11	5	15	9	12	11	11	12	24	1
5.....	Females...	124	13	9	11	11	7	7	8	7	13	9	11	18	..
	Total.....	216	19	26	12	14	18	13	16	17	22	19	22	17	1
	Males.....	123	11	12	7	8	10	6	11	8	15	12	11	11	1
6.....	Females...	93	8	14	5	6	8	7	5	9	7	7	11	6	..
	Total.....	178	17	19	12	12	10	16	14	14	13	16	12	23	..
	Males.....	98	9	13	4	7	3	8	6	9	9	11	8	11	..
7.....	Females...	80	8	6	8	5	7	8	8	5	4	5	4	12	..
	Total.....	153	16	11	9	14	6	16	7	13	10	16	16	19	..
	Males.....	76	6	4	7	3	2	12	5	10	6	5	6	10	..
	Females...	77	10	7	2	11	4	4	2	3	4	11	10	9	..

TABLE 52.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year, 1885.	Months, 1885.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
8.....	Total.....	131	5	8	7	10	9	10	14	9	11	21	13	14	-
	Males.....	67	3	4	6	5	3	5	6	6	8	11	6	4	-
	Females...	64	2	4	1	5	6	5	8	3	3	10	7	10	-
9.....	Total.....	139	19	5	11	8	10	14	5	14	14	8	12	18	1
	Males.....	65	10	3	6	4	3	6	3	7	8	1	4	9	1
	Females...	74	9	2	5	4	7	8	2	7	6	7	8	9	-
10.....	Total.....	116	6	9	10	11	8	4	8	9	13	17	11	10	-
	Males.....	60	2	5	4	6	4	3	4	6	6	11	4	5	-
	Females...	56	4	4	6	5	4	1	4	3	7	6	7	5	-
11.....	Total.....	114	7	9	10	2	7	11	11	11	11	10	12	12	1
	Males.....	59	1	2	7	1	5	6	8	7	6	8	5	3	-
	Females...	55	6	7	3	1	2	5	3	4	5	2	7	9	1
12.....	Total.....	91	8	9	5	5	3	6	7	10	10	9	10	9	-
	Males.....	45	4	6	3	2	2	4	3	3	4	8	3	3	-
	Females...	46	4	3	2	3	1	2	4	7	6	1	7	6	-
13.....	Total.....	96	5	10	5	8	7	7	9	7	12	14	7	5	-
	Males.....	43	4	5	2	6	2	3	5	4	6	3	3	-	-
	Females...	53	1	5	3	2	5	4	4	3	6	11	4	5	-
14.....	Total.....	84	7	7	7	3	8	3	8	7	9	10	7	8	-
	Males.....	49	5	3	5	2	3	2	6	5	6	3	2	7	-
	Females...	35	2	4	2	1	5	1	2	2	3	7	5	1	-
15.....	Total.....	78	3	5	10	3	10	5	7	11	4	6	9	5	-
	Males.....	33	-	1	3	2	8	4	2	3	3	1	4	2	-
	Females...	45	3	4	7	1	2	1	5	8	1	5	5	3	-
16.....	Total.....	112	5	7	11	7	10	9	9	13	14	5	12	10	-
	Males.....	52	3	4	6	3	6	4	4	8	7	-	2	5	-
	Females...	60	2	3	5	4	4	5	5	5	7	5	10	5	-
17.....	Total.....	124	8	4	9	10	19	9	7	16	15	9	10	8	-
	Males.....	56	4	2	6	4	12	4	3	3	7	4	4	3	-
	Females...	68	4	2	3	6	7	5	4	13	8	5	6	5	-
18.....	Total.....	126	8	9	10	18	13	5	10	8	11	8	9	17	-
	Males.....	62	3	5	5	6	5	2	3	5	7	4	6	11	-
	Females...	64	5	4	5	12	8	3	7	3	4	4	3	6	-
19.....	Total.....	147	17	10	13	8	10	13	14	11	9	13	12	14	3
	Males.....	61	8	6	6	2	3	3	6	6	4	7	4	6	-
	Females...	86	9	4	7	6	7	10	8	5	5	6	8	8	3

DEATHS—BY AGES, BY SEX, BY MONTHS.

103

TABLE 52.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year, 1885.	Months, 1885.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
20.....	Total.....	131	7	8	15	14	9	17	9	15	10	12	9	6	..
	Males.....	68	4	5	7	6	5	10	5	7	4	5	6	4	..
	Females...	63	3	3	8	8	4	7	4	8	6	7	3	2	..
21.....	Total.....	148	9	16	9	16	11	20	9	10	18	9	9	12	..
	Males.....	67	4	10	1	10	1	10	3	5	12	4	4	3	..
	Females...	81	5	6	8	6	10	10	6	5	6	5	5	9	..
22.....	Total.....	161	9	15	11	15	13	16	16	13	12	19	10	11	1
	Males.....	72	3	5	6	7	4	5	7	7	6	11	4	7	..
	Females...	89	6	10	5	8	9	11	9	6	6	8	6	4	1
23.....	Total.....	148	7	8	18	16	6	12	14	17	13	17	8	12	..
	Males.....	66	3	2	8	10	2	5	5	7	4	11	3	6	..
	Females...	82	4	6	10	6	4	7	9	10	9	6	5	6	..
24.....	Total.....	163	5	11	18	18	12	8	17	10	15	14	19	15	1
	Males.....	74	2	9	9	4	4	1	7	5	7	6	8	12	..
	Females...	89	3	2	9	14	8	7	10	5	8	8	11	3	1
25.....	Total.....	136	7	14	14	13	9	7	5	11	9	16	15	16	..
	Males.....	66	4	6	7	6	5	4	2	7	2	6	7	10	..
	Females...	70	3	8	7	7	4	3	3	4	7	10	8	6	..
26.....	Total.....	167	15	11	20	13	13	14	18	11	10	13	13	16	..
	Males.....	73	8	6	8	5	4	7	9	3	3	4	7	9	..
	Females...	94	7	5	12	8	9	7	9	8	7	9	6	7	..
27.....	Total.....	144	3	11	15	9	9	10	10	13	14	10	23	17	..
	Males.....	72	2	5	7	7	4	3	5	9	5	2	12	11	..
	Females...	72	1	6	8	2	5	7	5	4	9	8	11	6	..
28.....	Total.....	170	6	16	19	17	17	11	9	12	12	17	13	21	..
	Males.....	74	3	9	8	9	6	3	4	3	5	8	6	10	..
	Females...	96	3	7	11	8	11	8	5	9	7	9	7	11	..
29.....	Total.....	122	8	9	10	15	11	9	10	9	12	11	9	9	..
	Males.....	53	1	5	6	6	6	6	4	6	3	2	3	5	..
	Females...	69	7	4	4	9	5	3	6	3	9	9	6	4	..
30.....	Total.....	120	11	6	10	10	15	8	14	9	11	6	13	7	..
	Males.....	70	6	3	7	5	7	3	8	6	3	6	11	5	..
	Females...	50	5	3	3	5	8	5	6	3	8	.....	2	2	..
31.....	Total.....	94	5	9	8	12	3	6	4	9	6	12	9	11	..
	Males.....	40	1	2	6	6	2	.....	1	3	.....	6	7	6	..
	Females...	54	4	7	2	6	1	6	3	6	6	6	2	5	..

TABLE 52.—CONTINUED.—Deaths by Ages, by Sex, by Months.

Ages in Years.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
32.....	Total.....	109	3	3	8	10	10	16	5	11	11	7	12	13	..
	Males.....	50	.....	1	2	3	4	7	4	7	5	3	9	5	..
	Females...	59	3	2	6	7	6	9	1	4	6	4	3	8	..
33.....	Total.....	115	9	8	11	16	4	14	9	4	9	10	9	12	..
	Males.....	46	6	1	2	6	.....	7	4	2	2	6	4	6	..
	Females...	69	3	7	9	10	4	7	5	2	7	4	5	6	..
34.....	Total.....	129	7	8	13	16	12	6	14	9	15	8	8	13	..
	Males.....	55	3	2	2	9	4	3	8	4	6	4	5	5	..
	Females...	74	4	6	11	7	8	3	6	5	9	4	3	8	..
35.....	Total.....	154	5	9	15	12	15	15	13	7	15	15	18	14	1
	Males.....	80	3	4	9	8	10	7	4	3	7	4	14	6	1
	Females...	74	2	5	6	4	5	8	9	4	8	11	4	8	..
36.....	Total.....	113	8	9	8	6	12	10	8	11	8	16	7	10	..
	Males.....	48	4	2	2	1	6	5	4	6	6	7	2	3	..
	Females...	65	4	7	6	5	6	5	4	5	2	9	5	7	..
37.....	Total.....	106	6	7	14	14	8	9	8	8	7	5	8	11	..
	Males.....	55	3	4	5	9	5	5	3	5	4	3	4	5	..
	Females...	50	3	3	9	5	3	4	5	3	3	2	4	6	..
38.....	Total.....	134	8	8	15	13	14	9	16	9	16	10	8	8	..
	Males.....	66	2	4	8	10	3	7	9	5	7	5	4	2	..
	Females...	68	6	4	7	3	11	2	7	4	9	5	4	6	..
39.....	Total.....	88	6	6	7	8	8	10	4	8	7	7	6	11	..
	Males.....	46	5	3	3	3	5	6	3	2	5	4	2	5	..
	Females...	42	1	3	4	5	3	4	1	6	2	3	4	6	..
40.....	Total.....	130	8	14	5	13	14	11	7	11	16	7	10	14	..
	Males.....	65	3	5	2	8	9	5	2	4	10	3	6	8	..
	Females...	65	5	9	3	5	5	6	5	7	6	4	4	6	..
41.....	Total.....	80	8	5	7	9	6	3	8	10	6	6	2	10	..
	Males.....	41	3	3	3	4	4	2	5	4	5	3	1	4	..
	Females...	39	5	2	4	5	2	1	3	6	1	3	1	6	..
42.....	Total.....	135	9	12	7	15	13	13	8	8	14	11	7	18	..
	Males.....	70	3	7	3	5	4	8	4	3	7	6	4	16	..
	Females...	65	6	5	4	10	9	5	4	5	7	5	3	2	..
43.....	Total.....	85	6	3	9	6	7	10	9	7	5	3	13	7	..
	Males.....	44	4	.....	5	4	2	6	5	3	3	2	5	5	..
	Females...	41	2	3	4	2	5	4	4	4	2	1	8	2	..

DEATHS—BY AGES, BY SEX, BY MONTHS.

105

TABLE 52.—CONTINUED.—Deaths by Ages, by Sex, by Months.

Ages in Years.	Sex.	Year, 1885.	Months, 1885.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December. Unknown.
44.....	Total.....	91	10	2	10	8	7	6	7	9	10	7	8	7
	Males.....	44	3	2	5	3	5	1	1	4	6	5	5	4
	Females.....	47	7	—	5	5	2	5	6	5	4	2	3	3
45.....	Total.....	153	12	13	12	16	15	7	7	13	11	21	10	15
	Males.....	79	7	7	6	8	8	—	5	8	3	10	7	10
	Females.....	74	5	6	6	8	7	7	2	5	8	11	3	5
46.....	Total.....	74	7	5	4	13	6	3	6	6	3	6	8	7
	Males.....	41	5	2	3	4	3	—	2	5	1	5	6	5
	Females.....	33	2	3	1	9	3	3	4	1	2	1	2	2
47.....	Total.....	105	8	11	13	5	7	11	9	3	10	10	8	10
	Males.....	56	4	5	8	1	2	6	2	2	7	8	4	7
	Females.....	49	4	6	5	4	5	5	7	1	3	2	4	3
48.....	Total.....	97	6	5	11	7	13	9	5	7	10	10	5	9
	Males.....	48	3	3	7	2	5	2	2	5	3	7	4	5
	Females.....	49	3	2	4	5	8	7	3	2	7	3	1	4
49.....	Total.....	89	5	5	7	1	9	10	6	7	12	12	4	11
	Males.....	48	4	2	4	—	5	8	2	4	6	5	1	7
	Females.....	41	1	3	3	1	4	2	4	3	6	7	3	4
50.....	Total.....	123	6	10	11	11	19	16	9	10	12	1	8	10
	Males.....	73	5	7	4	8	12	8	5	5	6	—	7	6
	Females.....	50	1	3	7	3	7	8	4	5	6	1	1	4
51.....	Total.....	73	6	5	7	8	5	11	3	8	6	6	5	3
	Males.....	44	3	4	4	6	3	8	2	3	3	3	3	2
	Females.....	29	3	1	3	2	2	3	1	5	3	3	2	1
52.....	Total.....	126	5	13	14	10	11	5	10	14	11	16	7	10
	Males.....	66	3	7	8	3	6	3	4	5	7	9	3	8
	Females.....	60	2	6	6	7	5	2	6	9	4	7	4	2
53.....	Total.....	106	3	4	10	11	11	6	12	7	11	10	11	9
	Males.....	57	2	3	4	10	6	3	4	3	5	7	5	5
	Females.....	49	1	1	6	1	5	3	8	4	6	3	6	4
54.....	Total.....	113	7	8	8	7	7	10	9	9	12	8	11	17
	Males.....	71	5	6	5	5	2	7	6	6	9	4	5	11
	Females.....	42	2	2	3	2	5	3	3	3	3	4	6	6
55.....	Total.....	103	10	8	7	7	8	10	10	6	7	8	7	13
	Males.....	63	6	6	5	5	6	6	6	3	5	4	2	8
	Females.....	40	4	2	2	2	2	4	4	3	2	4	5	5

TABLE 52.—CONTINUED.—Deaths by Ages, by Sex, by Months.

Ages in Years.	Sex.	Year, 1885.	Months, 1885.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
56.....	Total.....	149	7	5	15	20	12	12	14	12	11	11	14	16	..
	Males.....	82	4	1	9	14	8	6	7	7	6	6	6	8	..
	Females...	67	3	4	6	6	4	6	7	5	5	5	8	8	..
57.....	Total.....	103	11	5	8	9	11	5	17	8	6	8	7	8	..
	Males.....	55	8	3	4	6	4	2	10	4	5	3	3	3	..
	Females...	48	3	2	4	3	7	3	7	4	1	5	4	5	..
58.....	Total.....	114	5	15	7	11	12	11	5	10	12	8	12	6	..
	Males.....	61	3	7	3	8	5	6	5	4	10	4	5	1	..
	Females...	53	2	8	4	3	7	5	...	6	2	4	7	5	..
59.....	Total.....	110	7	10	7	10	9	7	7	14	13	7	5	14	..
	Males.....	68	4	9	4	5	7	4	4	8	7	3	3	10	..
	Females...	42	3	1	3	5	2	3	3	6	6	4	2	4	..
60.....	Total.....	135	17	9	11	15	14	9	6	7	10	15	9	13	..
	Males.....	82	13	5	6	5	7	9	3	5	5	9	8	7	..
	Females...	53	4	4	5	10	7	...	3	2	5	6	1	6	..
61.....	Total.....	94	11	13	4	8	11	9	4	7	8	5	7	7	..
	Males.....	60	6	7	2	7	7	6	2	7	6	1	6	3	..
	Females...	34	5	6	2	1	4	3	2	...	2	4	1	4	..
62.....	Total.....	127	11	8	14	12	10	6	7	16	9	12	8	14	..
	Males.....	80	5	6	9	10	2	6	3	13	7	7	5	7	..
	Females...	47	6	2	5	2	8	...	4	3	2	5	3	7	..
63.....	Total.....	136	10	12	12	6	19	10	14	8	15	12	8	10	..
	Males.....	76	8	6	5	4	8	4	10	7	4	9	4	7	..
	Females...	60	2	6	7	2	11	6	4	1	11	3	4	3	..
64.....	Total.....	141	7	15	9	16	10	11	11	9	15	18	7	13	..
	Males.....	74	4	6	6	12	7	7	5	6	7	6	2	6	..
	Females...	67	3	9	3	4	3	4	6	3	8	12	5	7	..
65.....	Total.....	190	15	17	18	19	16	13	11	13	11	18	19	20	..
	Males.....	121	8	11	7	11	13	10	8	10	7	9	13	14	..
	Females...	69	7	6	11	8	3	3	3	3	4	9	6	6	..
66.....	Total.....	131	12	11	8	11	7	7	8	12	14	14	17	10	..
	Males.....	79	9	5	7	4	5	4	5	9	5	7	12	7	..
	Females...	52	3	6	1	7	2	3	3	3	9	7	5	3	..
67.....	Total.....	140	7	13	11	15	10	8	14	11	10	14	13	14	..
	Males.....	81	6	7	7	7	6	5	10	8	5	6	9	5	..
	Females...	59	1	6	4	8	4	3	4	3	5	8	4	9	..

DEATHS—BY AGES, BY SEX, BY MONTHS.

107

TABLE 52.—CONTINUED.—Deaths by Ages, by Sex, by Months.

Ages in Years.	Sex.	Year, 1885.	Months, 1885.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
68.....	Total.....	119	8	8	11	18	7	5	10	6	15	9	12	10	..
	Males.....	70	4	6	4	15	6	3	7	3	11	3	5	3	..
	Females...	49	4	2	7	3	1	2	3	3	4	6	7	7	..
69.....	Total.....	108	4	6	5	9	9	9	3	7	15	13	13	15	..
	Males.....	61	2	3	3	8	4	3	2	4	9	9	6	8	..
	Females...	47	2	3	2	1	5	6	1	3	6	4	7	7	..
70.....	Total.....	142	11	12	8	12	15	3	7	8	16	18	18	14	..
	Males.....	88	7	6	6	6	11	2	4	5	10	11	11	9	..
	Females...	54	4	6	2	6	4	1	3	3	6	7	7	5	..
71.....	Total.....	91	7	9	12	9	11	5	4	8	6	5	6	9	..
	Males.....	55	5	7	7	6	4	3	2	6	5	4	2	4	..
	Females...	36	2	2	5	3	7	2	2	2	1	1	4	5	..
72.....	Total.....	164	5	13	17	13	10	14	16	8	19	17	17	15	..
	Males.....	84	2	8	6	4	7	6	12	4	11	9	8	7	..
	Females...	80	3	5	11	9	3	8	4	4	8	8	9	8	..
73.....	Total.....	148	8	12	14	13	8	12	14	15	10	9	14	17	2
	Males.....	84	1	7	7	10	3	7	9	10	4	6	7	12	1
	Females...	64	7	5	7	3	5	5	5	5	6	3	7	5	1
74.....	Total.....	142	7	9	14	17	18	4	13	7	11	17	14	11	..
	Males.....	81	4	5	7	10	8	3	6	4	7	12	8	7	..
	Females...	61	3	4	7	7	10	1	7	3	4	5	6	4	..
75.....	Total.....	158	10	13	11	21	14	10	11	8	13	15	16	15	1
	Males.....	97	5	6	6	13	11	7	8	6	8	7	11	8	1
	Females...	61	5	7	5	8	3	3	3	2	5	8	5	7	..
76.....	Total.....	153	10	15	20	12	9	11	9	11	9	13	15	18	1
	Males.....	82	3	9	12	8	8	4	3	7	5	5	8	9	1
	Females...	71	7	6	8	4	1	7	6	4	4	8	7	9	..
77.....	Total.....	102	6	5	9	8	6	10	9	5	9	11	9	13	2
	Males.....	56	3	2	5	6	3	7	4	3	6	6	2	9	..
	Females...	46	3	3	4	2	3	3	5	2	3	5	7	4	2
78.....	Total.....	130	13	9	10	14	4	5	14	12	10	8	14	17	..
	Males.....	68	7	4	6	8	2	4	8	6	5	5	5	8	..
	Females...	62	6	5	4	6	2	1	6	6	5	3	9	9	..
79.....	Totals.....	102	11	8	10	9	10	6	5	12	7	6	9	8	1
	Males.....	62	5	6	3	5	5	4	5	7	6	4	7	5	..
	Females...	40	6	2	7	4	5	2	---	5	1	2	2	3	1

TABLE 52.—CONTINUED.—Deaths by Ages, by Sex, by Months.

Ages in Years.	Sex.	Year, 1885.	Months, 1885.												
			January.	February.	arch.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
80	Total.....	110	9	6	10	8	11	12	4	8	10	10	9	11	3
	Males.....	70	5	5	3	3	7	10	2	5	6	7	6	9	2
	Females.....	40	4	1	7	5	4	2	2	3	4	3	3	2	..
81	Total.....	73	4	6	3	9	5	5	5	3	12	8	8	5	..
	Males.....	48	1	4	2	5	1	4	3	2	10	7	4	5	..
	Females.....	25	3	2	1	4	4	1	2	1	2	1	4	..	..
82	Total.....	95	..	2	11	12	10	6	1	7	7	11	17	11	..
	Males.....	56	..	1	8	8	6	2	1	4	5	7	7	7	..
	Females.....	39	..	1	3	4	4	4	..	3	2	4	10	4	..
83	Total.....	76	3	6	6	10	6	3	11	1	3	10	6	10	1
	Males.....	43	2	3	4	4	3	..	9	1	2	4	5	5	1
	Females.....	33	1	3	2	6	3	3	2	..	1	6	1	5	..
84	Total.....	87	6	7	10	6	7	4	6	9	10	9	7	6	..
	Males.....	57	4	6	7	4	4	3	4	4	8	6	4	3	..
	Females.....	30	2	1	3	2	3	1	2	5	2	3	3	3	..
85	Total.....	102	8	10	5	6	5	5	7	5	15	14	10	12	..
	Males.....	56	4	4	4	4	3	3	4	2	9	9	4	6	..
	Females.....	46	4	6	1	2	2	2	3	3	6	5	6	6	..
86	Total.....	58	5	6	8	6	4	2	2	5	1	3	8	8	..
	Males.....	32	3	1	4	3	4	2	1	4	..	..	5	5	..
	Females.....	26	2	5	4	3	..	..	1	1	1	3	3	3	..
87	Total.....	35	2	2	3	4	2	4	4	2	2	3	3	4	..
	Males.....	24	1	..	2	4	1	3	1	1	2	2	3	4	..
	Females.....	11	1	2	1	..	1	1	3	1	..	1	..	..	..
88	Total.....	25	3	1	2	2	2	1	1	2	2	5	1	3	..
	Males.....	14	1	1	1	1	..	..	..	2	1	4	1	2	..
	Females.....	11	2	..	1	1	2	1	1	..	1	1	..	1	..
89	Total.....	22	2	2	3	3	..	2	2	1	2	..	3	2	..
	Males.....	11	1	..	1	1	..	1	2	1	2	..	1	1	..
	Females.....	11	1	2	2	2	..	1	..	..	..	..	2	1	..
90	Total.....	25	1	1	3	4	..	1	1	2	2	1	4	5	..
	Males.....	11	..	1	1	2	..	..	..	2	..	..	2	3	..
	Females.....	14	1	..	2	2	..	1	1	..	2	1	2	2	..
91	Total.....	10	..	2	2	..	1	..	..	..	2	1	1	1	..
	Males.....	4	..	1	..	..	1	..	..	..	..	..	1	1	..
	Females.....	6	..	1	2	..	..	..	..	..	2	1	..	..	..

DEATHS—BY AGES, BY SEX, BY MONTHS.

109

TABLE 52.—CONTINUED.—Deaths by Ages, by Sex, by Months.

Ages in Years	Sex.	Year, 1885.	Months, 1885.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
92	Total	13	1	1	1	1				4	1		2	2	
	Males	4		1						3					
	Females	9	1		1	1				1	1		2	2	
93	Total	8	2	1	1		1		1		1	1			
	Males	5	1		1		1				1	1			
	Females	3	1	1					1						
94	Total	11	1	2	2		1		1	1		1	1	1	
	Males	6	1						1	1		1	1	1	
	Females	5		2	2		1								
95	Total	14	1	2		1			2	2	1	2		3	
	Males	10		2		1			2	1		1		3	
	Females	4	1							1	1	1			
96	Total	9		2	1	3							3		
	Males	7		2	1	2							2		
	Females	2				1							1		
97	Total	3										1	1	1	
	Males	1										1			
	Females	2											1	1	
98	Total	2		1				1							
	Males	2		1				1							
	Females														
99	Total	4				1						2	1		
	Males	2				1						1			
	Females	2										1			
100 and over	Total	12	1	2	1			2	1	3					
	Males	8		1	1			2	1	2			1		
	Females	4	1	1		1									
Unknown	Total	224	5	13	6	18	14	19	14	15	21	29	14	28	28
	Males	131	2	5	5	13	9	14	9	9	17	14	12	14	8
	Females	78	3	8		5	4	5	5	6	4	15	2	14	6
	Unknown	15					1								14

INFANT MORTALITY.

The number of still-births returned continues to show a steady increase, the number for 1885 being 89 greater than for 1884, which was 35 more than for 1883. The proportion of still-births to total deaths is nearly one per cent greater this year than last, and is 1.07 per cent greater than the average for the previous ten years.

TABLE 53.—*The Relation of Still-births to all Deaths returned for the Years 1883, 1884, 1885, and the Average for Ten Years, 1875-1884, Corrected by means of the Returns of Births.*

	Total Deaths and Still-births.			
	1883.	1884.	1885.	Average for 10 Years, 1875-1884.
All deaths.....	16,906	18,056	16,646	15,139
Number of still-births.....	884	919	1,008	756
Per cent of still-births to total deaths.....	5.23	5.09	6.06	4.99

Probably no difficulty will be experienced in comprehending the various exhibits presented in Table 54, therefore the complete description of the table, which was given last year, is omitted in this report. In case any one wishes to read the full description it will be found upon page 108, Report of 1884.

RELATIONS OF DEATHS OF CHILDREN TO BIRTHS.

The various relations existing between the births and the excessive number of infant deaths may be still further studied in Tables 55, 56, and 57.

While there are 408 fewer births given in Table 55 than in last year's report, the total deaths of infants aged under one year are 466 greater, being an increase of 1.26 in the per cent of deaths under one to births. The usual excess of deaths of male infants over females is about two per cent; in this table the excess is considerably larger, being 2.57 per cent as to total of births.

The total deaths, by months, show a practical uniformity as to number, there being no great excess in any month, and but one month, November, with a low number. In the per cent of deaths to births by months, February stands highest with 14.52, and November lowest with 9.18 per cent, the extreme fluctuation being 5.34 per cent.

Table 56 will repay one for a careful study of the facts it shows so concisely. The first column gives the total number of children born in 1884, and in each month of that year, who died aged under one year. The first diagonal column gives the number who died in each month aged under one month, the second those aged one month, the third those aged two months, and so on. It is interesting to note that in the periods of months the probabilities of life increase with the age, as they do up to a certain limit, in the periods of years. Thus we find in each horizontal line that the number of deaths decreases rapidly with increasing age, as for instance the month of August, with 3,673 births, returns 205 deaths under one month, with but 13 aged 11 months. The last column giving the per cent of children who died aged under one month to total births, shows some fluctuations, the colder months vying with August and September. How much of these fluctuations is due to actual deaths and how much to imperfect registration, it is impossible to state. The average, however, is somewhat higher this year than last, being 5.03 as against 4.84.

TABLE 54.—
1885; dist.
Born in Year

Months in which Births and Deaths occurred.	
January.....	
February.....	
March.....	
April.....	
May.....	
June.....	
July.....	
August.....	
September...	
October.....	
November...	
December....	
Deaths by Ages.	Of those Born in Year of Death.
	Of those Born in Previous Year.
	All Ages under 6 Year.

• Excl

fo
tic
is
T

—

—
Al
Nu
Pe
—
:
ser
ye
wi

de
de:
ce
fer
pe
no
the
No
col
wh
in
ag
pro
of
ray
ret
giv
sor
of
is
bei

TABLE 55.—Of the Children Born in 1884, the Number who died during the Year 1884; the Number who died during the Year 1885 under One Year of Age, and the Per Cent of Decedents aged under One Year to the Children Born in 1884, according to the Returns.

Months of Births.	Births in 1884, as Returned.	Born in 1884.				Births of Males, 1884, as Returned.	Males Born in 1884.				Births of Females, 1884, as Returned.	Females Born in 1884.			
		Died during the year 1884.	Died aged under 1 Year 1885.	Total died aged under 1 Year.	Per cent of Deaths under 1 to Births.		Died during the Year 1884.	Died aged under 1 Year 1885.	Total died aged under 1 Year.	Per cent of Deaths under 1 to Births.		Died during the Year 1884.	Died aged under 1 Year 1885.	Total died aged under 1 Year.	Per cent of Deaths under 1 to Births.
Total a.	40,359	3,969	741	4,710	11.67	20,890	2,274	427	2,701	12.83	19,387	1,695	314	2,009	10.36
January	2,748	363	—	363	13.21	1,421	214	—	214	15.06	1,322	149	—	149	11.27
February	2,878	412	6	418	14.52	1,490	221	4	225	15.10	1,385	191	2	193	13.94
March	3,498	430	13	443	12.66	1,831	244	8	252	13.65	1,690	186	5	191	11.51
April	3,430	412	20	432	12.59	1,795	244	7	251	13.98	1,627	168	13	181	11.12
May	3,480	379	41	420	12.07	1,744	211	24	235	13.47	1,724	168	17	185	10.73
June	3,407	357	49	406	11.92	1,777	204	27	231	13.00	1,624	153	22	175	10.78
July	3,482	349	45	394	11.32	1,789	190	28	218	12.19	1,684	159	17	176	10.45
August	3,673	336	97	433	11.79	1,918	196	65	261	13.61	1,747	140	32	172	9.85
September	3,559	311	98	409	11.49	1,872	180	57	237	12.66	1,676	131	41	172	10.26
October	3,445	224	126	350	10.16	1,788	135	66	201	11.24	1,651	89	60	149	9.02
November	3,215	184	111	295	9.18	1,655	109	62	171	10.33	1,556	75	49	124	7.97
December	3,544	212	135	347	9.79	1,810	126	79	205	11.33	1,731	86	56	142	8.20

* Excluding 49 in unknown month.

TABLE 56.—The Months of Births and of Deaths of Children Born in 1884, who Died under One Year of Age.

Months of Births, 1884.		Months of Death, 1884.												Months of Death, 1885.												Per Cent of Deaths under 1 month. ^a	Births in 1884, as Re- turned. ^b	Per Cent of Deaths under 1 month. ^c
Born in 1884, Year of Age.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.				
Born in 1884, died aged 1 under 1 year.....	4,710	140	167	220	220	251	257	300	582	578	476	303	385	126	115	116	91	54	49	69	58	50	8	5	38.57	40,359	5.09	
January.....	393	140	23	18	15	12	19	33	38	23	23	5	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,748	5.00	
February.....	418	.....	144	35	22	14	19	35	56	40	22	15	10	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,878	4.77	
March.....	443	.....	.....	167	28	31	35	35	50	44	24	6	10	8	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,498	4.52	
April.....	432	.....	.....	.....	155	37	16	41	58	48	33	14	10	6	10	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,430	4.51	
May.....	420	.....	.....	.....	.....	157	20	43	60	47	26	11	15	15	7	12	7	.....	.....	.....	.....	.....	.....	.....	.....	3,480	4.34	
June.....	406	.....	.....	.....	.....	.....	148	42	57	61	26	11	12	11	8	13	11	6	.....	.....	.....	.....	.....	.....	.....	3,407	.....
July.....	394	.....	.....	.....	.....	.....	.....	161	58	55	46	16	13	13	7	11	6	5	3	.....	.....	.....	.....	.....	.....	40.86	3,482	5.58
August.....	433	.....	.....	.....	.....	.....	.....	.....	205	54	48	12	17	11	25	17	13	9	9	13	.....	.....	.....	.....	.....	47.34	3,673	5.79
September.....	409	.....	.....	.....	.....	.....	.....	.....	.....	206	54	26	25	13	6	7	18	13	7	17	17	.....	.....	.....	.....	50.37	3,559	5.05
October.....	350	.....	.....	.....	.....	.....	.....	.....	.....	.....	174	27	23	18	15	18	15	5	8	12	14	21	.....	.....	.....	40.71	3,445	4.98
November.....	295	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	160	24	12	18	15	10	10	9	8	17	10	2	.....	.....	54.24	3,215	5.98
December.....	347	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	212	13	14	19	11	6	13	19	10	19	6	5	.....	61.10	3,544	.....
Deaths at each age.	4,710	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,029	415	395	364	284	253	272	217	147	144	117	103	43.08	.....	5.03
Ages in Mos.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

^a That is, per cent of children who died during month of birth to total born in 1884 who died aged under one year.

^b Excluding 49 in unknown month, 18 males, 27 females, and 4 of unknown sex.

^c That is, of the children born in 1884, the per cent who died during month of birth,—according to the returns of births and deaths. It should be borne in mind that probably a larger proportion of the births and of the deaths are returned for the later months of the year.

Table 57 shows an increase over last year of 1,711 births, and of 150 deaths aged under one month, making a small increase in the per cent of such deaths to total births, which was 5.19 in 1884, and is 5.34 this year, being the highest figure yet reached. As usual, the per cent of males is considerably in excess of the females. The table also shows the variations by months for the totals and for each sex.

TABLE 57.—*The relation, by Months, of the Decedents aged under One Month to the Births returned for the Year 1885.*

Sex, etc., Specified.	Year, 1885.	Months, 1885.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total.....	42,119	2,707	2,987	3,533	3,618	3,730	3,346	3,567	3,924	3,965	3,624	3,363	3,689	36
	2,249	179	175	196	220	175	154	205	206	176	183	185	191	4
	5.34	6.61	5.86	5.55	6.08	4.69	4.60	5.75	5.25	4.41	5.05	5.50	5.18	11.11
Males.....	21,660	1,384	1,558	1,820	1,855	1,891	1,710	1,879	1,994	2,049	1,843	1,768	1,922	17
	1,325	94	104	118	141	105	91	116	126	94	118	117	100	1
	6.11	6.79	6.68	6.48	7.60	5.55	5.32	6.17	6.32	4.59	6.40	6.62	5.20	5.88
Females.....	20,366	1,319	1,426	1,703	1,758	1,832	1,634	1,682	1,923	1,941	1,777	1,590	1,764	17
	888	80	69	73	75	66	62	85	78	80	62	66	89	3
	4.36	6.07	4.84	4.29	4.27	3.60	3.79	5.05	4.06	4.12	3.49	4.15	5.05	17.65
Unknown.....	63	4	3	10	5	7	2	6	7	5	4	5	3	2
	36	5	2	5	4	4	1	4	2	2	3	2	2	.....

a Still-births included.

DEATHS OF CENTENARIANS.

Michigan reports the death of twelve persons in 1885 as aged one hundred years or over. While the ages given may not be correct in all cases, there is little room to doubt but that most of them are substantially as there given. Massachusetts returns 16 deaths of centenarians for 1885, of whom 14 were married and 2 females, single; 5 were males and 11 females; the ages ranged from 100 to 110, the average being 103.

Of the 12 recorded in table 58, 8 were males and 4 females, and all except 1 female were or had been married. Nine were whites, 2 Indians, and 1 black. The ages ranged from 100 to 110, the average being 104.

The census of 1884 gave the total number of inhabitants then living in Michigan aged 100 years or over as 30. Of these, 1 was returned among the deaths in 1884, and 5 among the deaths in 1885. The other 7 are not found in the census list, 5 of them doubtless because they were not then centenarians; whether the remaining 2 were overlooked, or came into the State since the enrollment is unknown. The census list referred to will be found on page 38 in the summary to volume I.

TABLE 58.—*Exhibiting certain Details concerning Persons returned as having died aged One Hundred Years and over during the Year 1885.*

Names of Centenarians, 1885.	Sex.	Color.	Married, Single or Widowed.	Birthplace.	Age.			Occupation.	Place of Death.		Date of Death, 1885.		Cause of Death.
					Year.	Month.	Day.		Town.	County.	Month.	Day.	
Chief Quaxum.....	Male.....	Indian	Married.	Michigan...	104	2	3	Chief.....	Arcadia.....	Manistee...	July.....	7	Old age.
Ignatius Petoskey.....	Male.....	Indian	Widow'r.	Michigan...	110	.....	.....	Merchant..	Bear Lake....	Charlevoix.	June.....	15	Old age.
Charles Timms.....	Male.....	White	Widow'r.	England....	100	6	12	Gardener..	Ball.....	Crawford...	June.....	3	Old age.
Thomas Ford.....	Male.....	White	Married.	England....	101	.....	.....	Farmer....	Sylvan.....	Oscola.....	February..	18	Old age.
Frances Graves.....	Female....	Black	Single....	Unknown...	105	.....	.....	Nurse.....	Grand Haven.	Ottawa.....	January....	11	Old age.
Abner Meeker.....	Male.....	White	Married.	New Jersey..	100	2	2	Farmer....	Wheatland...	Mecosta....	August....	18	Old age.
Sophia Brown.....	Female....	White	Widow..	New York...	100	.....	.....	Housewife.	Fulton.....	Gratiot.....	February..	11	Old age.
Mary Butler.....	Female....	White	Widow..	Unknown...	101	.....	.....	None.....	Leighton....	Allegan....	August....	1	Old age.
Phebe Bailey.....	Female....	White	Widow..	Unknown...	104	4	2	None.....	Hudson.....	Lenawee....	April.....	4	Old age.
James O'Neil.....	Male.....	White	Married.	Ireland.....	105	3	13	Unknown...	Ann Arbor...	Washtenaw	August....	28	Pneum'nia.
Thomas Pykett.....	Male.....	White	Widow'r.	England....	109	10	.....	Farmer....	Bridgewater..	Washtenaw	November..	22	Old age.
Donald McClenan.....	Male.....	White	Widow'r.	Scotland...	107	.....	.....	Farmer....	Detroit.....	Wayne.....	March.....	30	Debility.

DELINQUENT TOWNSHIPS.

No returns of deaths for 1885 were received from 20 townships, aggregating, by the census of 1884, 7,666 inhabitants. This is double the number of townships which failed to report last year, when the unreported population aggregated 4,760.

TABLE 59.—*Counties and Townships from which no Returns of Deaths for 1885 were received by this Department, showing Population in 1884.*

Counties.	Townships from which no Returns of Deaths for 1885 were Received.	Total.			Color or Race.										Nativity.			
					White.			Black and Mulatto.			Indian.		Unknown Color.		Native.		Foreign.	
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Males.	Females.
Total.....		7,666	4,256	3,410	7,536	4,193	3,343	34	14	20	96	49	47	2,472	2,472	1,168	26	18
Alcona.....		1,713	930	783	1,713	930	783								515	454	309	1
Alger.....	Harrisville.....																	
	{ Au Train *.....																	
	{ Munising.....	323	207	116	244	165	79				79	43	37		110	97	84	32
Alpena.....	Maple Ridge.....	511	282	229	511	282	229								114	108	99	130
Chippewa.....	Pickford.....	738	400	338	738	400	338								62	62	320	280
	Beaver Creek.....	182	92	90	182	92	90								88	85	4	5
Crawford.....	Blaine *.....																	
	{ Center Plains.....	351	188	163	351	188	163								164	147	23	15
Grand Traverse.....	{ Mayfield.....	628	336	292	605	326	279	23	10	13					268	244	68	48
	{ Union *.....																	
Mason.....	Hamlin.....	297	170	127	280	163	117				17	7	10		95	80	75	47

Mecosta.....	Sheridan.....	204	174	120	283	170	113	11	4	7	138	97	35	23	...
Outonagon.....	{ Bessemer * .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Otsego.....	{ Ironwood * .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Roscommon.....	Hayes.....	201	110	91	201	110	91	...	...	...	76	69	34	22	...
Saginaw.....	Higgins.....	851	508	343	851	508	343	...	...	...	276	253	229	89	3
	{ Kochville.....	803	467	426	803	467	426	...	...	...	310	297	157	129	...
	{ Lakefield.....	296	131	135	296	131	135	...	...	...	72	92	58	43	1
Wexford.....	{ Concord.....	205	96	109	205	96	109	...	...	...	91	101	4	8	1
	{ Springville.....	213	145	68	213	145	68	...	...	...	92	60	52	8	1

* Organized since Census was taken.

TOWNSHIPS IN WHICH NO DEATHS OCCURRED.

Sixty-seven towns, with a population aggregating over eighteen thousand, report that there were no deaths therein during the year 1885. It is true that a large number of the towns have a very small population, but there are many whose inhabitants aggregate from 500 to 1,500, and it seems hardly credible that no deaths should occur in such townships, when there is an average of one death to every 111 inhabitants in the State at large.

TABLE 60.—*Counties and Townships in which it is reported that no Deaths occurred in 1885.*

Counties.	Townships; No Deaths in 1885.	Population.			Counties.	Townships; No Deaths in 1885.	Population.		
		Total.	Males.	Females.			Total.	Males.	Females.
Total.....		18,466	11,320	7,146					
Allegan.....	Pine Plains.....	561	299	262	Kalkaska.....	Glade.....	42	25	17
Antrim.....	Kearney.....	472	262	210		Oliver.....	65	31	34
	Warner.....	121	61	60	Keweenaw.....	Clifton.....	182	96	86
Arenac.....	Lincoln.....	365	204	161		Center.....	79	46	33
	Whitney.....	319	227	92		Cherry Valley..	223	140	83
Benzie.....	Colfax.....	179	91	88	Lake.....	Elk.....	298	224	74
	Weldon.....	120	77	43		Glencoe.....	72	40	32
Charlevoix..	Chandler.....	164	86	78	Mackinac..	Lake.....	291	200	91
	Hayes.....	685	360	325		Marquette.....			
	Hudson.....	117	61	56	Manistee...	Brown.....	741	470	271
	Melrose.....	296	155	141		Maple Grove....	152	81	71
Cheboygan..	Ellis.....	116	71	45	Springdale.....	108	63	45	
	Hebron.....	208	106	102	Marquette.....	Richmond.....	370	205	165
Clare.....	Waverly.....	49	33	16	Mason.....	Summit.....	459	258	201
	Arthur.....	69	36	33	Midland.....	Geneva.....	269	149	120
Delta.....	Masonville.....	266	156	110		Lincoln.....	286	196	90
Emmet.....	Eggleston.....	114	57	57	Missaukee.....	Aetna.....	123	76	47
	Littlefield.....	199	98	101	M'tnmor'cy	Albert.....	80	49	31
Gladwin.....	Buckeye.....	102	63	39		Montmorency..	143	83	60
	Clement.....	54	30	24	Newaygo.....	Goodwell.....	422	290	132
	Sage.....	112	69	43	Oceana.....	Colfax.....	128	65	63
Gratiot.....	Tobacco.....	99	59	40		Edwards.....	158	88	70
	Sumner.....	1,585	849	736		Ogemaw.....	Hill.....	30	20	10
Huron.....	Brookfield.....	603	317	286		Horton.....	228	135	98
	Huron.....	833	437	396		Klacking.....	284	152	132
Iosco.....	Lincoln.....	308	167	141	Ontonagon..	Bohemia.....	272	171	101
	Thompson.....	42	26	16		Carp Lake.....	1,117	1,069	48

TOWNSHIPS IN WHICH NO DEATHS OCCURRED.

119

TABLE 60.—Continued.

Counties.	Townships; No Deaths in 1885.	Population.			Counties.	Townships; No Deaths in 1885.	Population.		
		Total.	Males.	Females.			Total.	Males.	Females.
Osceola	Cedar.....	229	117	112	Presque Isle	Moltke.....	500	285	215
	Comins.....	149	128	21		Gerrish	251	193	58
Oscoda.....	Greenwood ..	83	39	44	Roscommon	Nester.....	391	353	38
	Harmon.....	124	66	58		Richfield *.....			
	Mt. Pindus.....	181	96	85		Roscommon.....	161	104	57
Otaego	Charlton.....	208	169	39	Schoolcraft.	Hiawatha.....	795	546	249
	Otsego Lake....	554	335	219					

* Organized since Census was taken.

DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

121

Arenac.....	Total.....	35	6	5	5	3	6	4	3	1	2	15	3	3	4	2	1	1	1	1	2	1	1
	Males.....	22	3	4	3	2	4	2	3	1	1	11	3	3	1	1	1	1	1	1	1	2	1
	Females...	13	3	1	2	1	2	2	1	1	1	4	1	1	3	2	1	1	1	1	1	1	1
Baraga.....	Total.....	34	2	3	1	2	1	4	4	5	6	13	2	1	3	3	1	1	1	2	1	1	8
	Males.....	19	2	1	1	1	1	2	1	2	3	4	1	1	1	1	1	1	1	1	1	6	
	Females...	15	1	2	1	1	1	2	3	2	2	1	4	2	2	3	1	1	1	1	1	2	
Barry.....	Total.....	123	7	7	8	9	11	8	7	15	8	29	4	10	8	7	2	1	4	10	3	10	7
	Males.....	61	3	4	4	6	4	2	3	10	5	9	4	7	9	2	1	3	1	2	4	4	3
	Females...	62	4	3	4	3	7	6	4	5	3	11	5	7	20	2	1	1	9	1	6	3	1
Bay.....	Total.....	463	27	26	39	34	30	47	58	54	38	43	42	249	24	7	15	13	31	16	17	13	11
	Males.....	231	20	12	12	21	18	21	30	38	28	17	22	143	14	5	11	9	15	6	8	5	5
	Females...	232	7	15	14	18	16	9	17	20	26	19	21	20	106	10	2	4	16	10	11	5	6
Benzie.....	Total.....	50	3	5	3	3	4	6	6	4	5	5	4	2	20	1	1	2	3	1	1	2	1
	Males.....	24	2	3	2	2	1	1	4	3	3	2	2	2	9	1	1	1	1	1	1	1	1
	Females...	26	1	2	1	1	3	6	2	1	2	3	2	2	11	1	1	1	3	1	1	1	1
Berrien.....	Total.....	312	17	31	26	30	29	20	19	24	32	28	33	23	96	7	7	12	8	10	13	12	9
	Males.....	178	11	16	12	19	19	14	11	10	16	16	19	15	59	3	3	5	5	7	5	3	6
	Females...	131	6	15	13	11	10	6	7	13	16	12	14	8	34	4	4	7	3	3	8	9	3
Branch.....	Unknown.	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1
	Total.....	223	12	17	17	16	16	18	14	25	30	18	20	19	1	5	9	12	6	9	11	9	5
	Males.....	111	7	9	9	10	4	5	7	13	18	10	8	11	28	1	2	5	7	3	1	3	4
Calhoun.....	Females...	112	5	8	8	6	12	13	7	12	12	8	12	8	1	23	4	3	4	5	3	8	5
	Total.....	304	13	18	23	33	26	17	23	37	28	29	24	17	3	89	8	7	13	12	15	8	8
	Males.....	161	10	10	17	24	9	5	14	16	13	20	13	10	46	4	3	5	3	8	6	2	6
Calhoun.....	Females...	138	3	8	15	12	16	12	9	21	14	9	10	6	3	38	4	4	8	9	7	2	6
	Unknown.	5	1	1	1	1	1	1	1	1	1	1	1	1	5	1	1	1	1	1	1	1	1

DEATHS--BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

123

Crawford.....	Total.....	23	2	1	2	1	1	2	1	1	2	5	2	3	1	10	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Males.....	15	1	1	1	2	1	2	3	1	2	3	1	2	1	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Females..	8	1	1	1	1	1	1	1	1	1	2	1	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Delta.....	Total.....	74	3	6	5	3	5	4	10	9	5	7	8	9	41	7	3	3	5	5	2	2	2	2	2	1	1	1	1	1	1	1	1
	Males.....	32	1	3	3	2	3	4	4	3	1	2	4	21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Females..	42	2	3	2	1	3	1	6	5	2	6	6	5	20	7	2	3	2	2	1	1	2	1	1	1	1	1	1	1	1	1	
Eaton.....	Total.....	280	21	17	20	27	26	25	22	22	27	30	22	21	83	9	2	13	13	11	8	12	8	8	5	14	21	20	24	18	10	1	
	Males.....	146	11	10	9	14	11	14	7	14	17	20	9	10	45	7	1	5	7	4	1	4	5	4	3	5	12	9	16	12	6	1	
	Females..	134	10	7	11	13	15	11	15	8	10	10	13	11	38	2	2	8	6	7	7	8	3	4	2	9	9	11	8	6	4	1	
Emmet.....	Total.....	80	6	8	4	7	5	3	12	9	8	4	9	5	37	4	2	1	2	5	8	1	2	2	3	1	3	1	3	1	4	1	
	Males.....	41	2	2	3	6	3	6	2	4	3	7	3	2	22	1	1	1	1	1	3	1	1	1	1	1	1	1	1	3	2	1	
	Females..	39	4	6	1	1	5	1	5	1	1	1	2	2	15	3	1	1	1	4	5	1	1	1	1	1	1	1	1	1	2	1	
Genesee.....	Total.....	232	22	28	23	20	20	15	22	21	25	31	26	29	75	13	6	13	14	13	7	13	8	6	9	13	21	17	16	10	27	1	
	Males.....	155	13	17	11	10	7	8	11	11	16	14	18	19	46	4	2	4	7	7	4	6	5	5	3	7	13	11	6	5	19	1	
	Females..	127	9	11	12	10	13	7	11	10	9	17	8	10	29	9	4	9	7	6	3	7	3	1	6	6	8	6	10	5	8	1	
Gladwin.....	Total.....	7	1	1	1	1	1	1	1	1	1	1	1	1	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Males.....	6	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Females..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Gd. Traverse..	Total.....	87	5	10	5	3	13	10	12	9	6	6	4	3	33	2	5	1	1	2	1	6	3	4	4	4	2	4	5	2	8	2	
	Males.....	46	4	5	3	1	7	6	5	2	3	5	3	1	17	1	3	1	1	2	1	2	2	2	3	2	2	3	1	3	1	3	
	Females..	41	1	5	2	2	6	4	7	7	3	1	1	2	16	1	2	1	1	1	4	1	2	1	2	1	2	2	1	5	2	1	
Gratiot.....	Total.....	120	5	6	7	12	15	13	9	12	4	14	10	13	42	4	1	2	8	3	5	7	5	6	3	4	5	5	8	3	6	3	
	Males.....	66	2	3	5	4	11	6	7	9	2	8	5	4	22	4	1	1	3	1	1	3	3	5	1	2	4	3	5	2	4	2	
	Females..	53	3	3	2	8	4	7	2	3	2	5	5	9	19	1	1	1	5	2	4	4	2	1	2	2	1	2	3	1	2	1	
Hilledale.....	Unknown..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Total.....	242	29	31	20	21	19	11	11	12	30	16	14	23	42	7	1	8	13	11	7	6	8	14	9	14	17	13	18	19	27	9	
	Males.....	131	15	18	5	13	12	4	7	7	17	9	8	16	23	2	1	2	5	5	4	2	4	9	4	7	11	8	11	11	16	4	
Females..	111	14	13	15	8	7	7	4	5	13	7	6	12	16	5	1	6	8	6	3	4	4	5	5	7	6	5	7	8	11	5		

DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

123

Isabella.....	Total.....	172	12	10	8	18	14	13	14	12	27	19	12	13	64	20	17	7	10	6	4	10	2	4	5	6	2	3	6	4	3			
	Males.....	92	8	3	3	14	4	5	6	7	16	11	6	9	35	12	9	2	4	2	2	6	2	2	3	5	2	1	1	1	4	2		
	Females...	80	4	7	5	4	10	8	8	5	11	8	6	4	29	8	8	5	6	4	2	4	2	2	2	2	1	2	5	—	—			
	Total.....	315	14	29	29	24	23	27	22	31	36	27	22	30	1	81	18	8	11	9	15	8	14	7	9	12	9	15	26	25	33	3		
Jackson.....	Males.....	166	9	15	20	9	11	14	12	14	17	15	11	18	1	38	11	6	5	4	8	2	7	5	2	7	3	8	9	16	16	17	2	
	Females...	149	5	14	9	15	12	13	10	17	19	12	11	12	43	7	2	6	5	7	6	7	2	7	5	6	7	3	10	9	16	1		
	Total.....	304	22	21	26	34	22	22	22	27	24	34	24	26	82	8	7	9	9	13	15	16	11	12	12	22	18	8	18	19	23	2		
	Males.....	170	15	10	11	20	9	12	14	18	10	19	13	19	43	5	2	7	5	5	8	9	8	6	9	7	11	7	9	14	15	—		
Kalamazoo.....	Females...	134	7	11	15	14	13	10	8	9	14	15	11	7	39	3	5	2	4	8	7	7	3	6	3	15	7	1	9	5	8	2		
	Total.....	36	1	2	5	2	2	7	3	3	2	4	1	3	1	16	1	1	1	4	—	—	2	2	—	2	1	1	3	—	2	—		
	Males.....	22	—	1	3	1	2	5	1	2	2	3	—	2	10	1	—	—	—	1	—	—	2	2	—	1	1	—	2	—	1	—		
	Females...	14	1	1	2	1	—	2	2	1	—	1	1	1	6	—	—	—	1	3	—	—	—	—	—	1	—	—	—	1	—	1		
Kalkaska.....	Total.....	694	34	50	61	48	57	46	48	81	79	56	61	72	1	248	28	32	22	32	37	24	29	27	22	24	18	23	36	33	22	35	2	
	Males.....	358	14	27	33	20	36	23	20	39	44	28	32	42	144	13	14	11	12	14	8	17	10	14	14	10	12	20	14	11	19	1		
	Females...	335	20	23	28	28	21	22	28	42	35	28	29	30	1	103	15	18	11	20	23	16	12	17	8	10	8	11	16	19	11	16	1	
	Unknown...	1	—	—	—	—	—	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kent.....	Total.....	38	4	—	4	6	3	4	2	5	1	2	1	6	15	2	1	2	2	3	3	1	—	—	1	2	—	—	—	—	—	6	—	
	Males.....	26	4	—	2	4	3	4	1	2	1	2	1	2	9	2	—	2	2	2	3	1	—	—	1	1	—	—	—	—	—	3	—	
	Females...	11	—	—	2	2	—	—	1	3	—	—	—	3	5	—	1	—	—	1	—	—	—	—	—	—	1	—	—	—	—	3	—	
	Unknown...	1	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Keweenaw.....	Total.....	23	1	—	2	3	5	4	—	3	1	1	3	—	9	—	—	4	1	2	1	2	—	—	1	—	—	1	1	—	—	1	—	
	Males.....	12	—	—	1	—	1	2	3	3	1	—	1	—	7	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Females...	11	—	—	—	—	1	1	2	1	—	2	1	—	3	2	—	2	1	—	—	1	2	—	1	—	—	—	—	—	—	—	1	—
	Total.....	194	11	17	17	18	16	7	16	12	22	17	15	26	52	16	8	12	6	11	4	9	5	5	9	5	6	10	9	6	20	1	—	
Lake.....	Males.....	99	4	12	8	7	4	4	10	9	13	5	12	11	34	10	4	3	1	3	3	3	1	3	2	4	2	5	2	5	14	—	—	
	Females...	95	7	5	9	11	12	3	6	3	9	12	3	15	18	6	4	9	5	8	1	6	4	2	7	1	4	5	7	1	6	1	—	
	Total.....	194	11	17	17	18	16	7	16	12	22	17	15	26	52	16	8	12	6	11	4	9	5	5	9	5	6	10	9	6	20	1	—	
	Males.....	99	4	12	8	7	4	4	10	9	13	5	12	11	34	10	4	3	1	3	3	3	1	3	2	4	2	5	2	5	14	—	—	
Lapeer.....	Females...	95	7	5	9	11	12	3	6	3	9	12	3	15	18	6	4	9	5	8	1	6	4	2	7	1	4	5	7	1	6	1	—	

DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

127

Marquette	Total	308	34	19	21	23	32	16	25	23	30	27	21	32	174	16	9	9	14	12	13	13	6	15	5	2	4	4	4	3	1	8
	Males	166	15	13	13	16	10	13	12	16	17	14	14	88	5	6	6	7	9	12	9	4	8	4	2	3	4	4	4	4	1	1
	Females	132	19	6	8	10	16	6	12	11	14	10	7	18	91	11	3	3	7	3	1	4	2	7	1	1	1	1	1	1	2	2
Mason	Total	75	9	3	7	7	3	8	5	9	7	9	6	2	30	3	4	2	2	6	1	3	3	1	4	3	5	2	4	2	2	2
	Males	35	2	2	3	4	1	4	1	6	5	3	2	2	13	1	2	1	2	2	1	1	1	1	2	3	3	3	3	3	3	3
	Females	40	7	1	4	3	2	4	4	3	2	6	4	4	17	2	2	1	1	4	1	2	2	2	2	2	2	2	2	2	2	2
Mecosta	Total	123	6	11	6	14	12	5	11	12	4	16	15	11	43	3	8	8	8	13	2	4	5	8	4	7	2	1	2	5	2	3
	Males	70	4	10	4	9	7	3	4	6	3	7	8	5	27	2	3	5	2	0	1	2	3	2	4	5	2	1	2	1	2	1
	Females	53	2	1	2	5	5	2	7	6	1	9	7	6	16	1	5	3	6	7	1	2	2	1	2	2	1	1	1	3	1	1
Menominee	Total	152	5	9	10	14	8	14	15	22	18	17	9	11	83	3	3	4	11	11	6	8	4	2	3	3	4	1	1	1	1	4
	Males	93	1	7	7	10	3	11	6	13	12	10	4	9	51	1	1	4	7	5	3	6	2	1	1	2	2	1	1	1	1	4
	Females	56	4	2	3	4	5	3	8	9	6	6	4	2	29	2	2	2	4	6	3	2	2	1	2	1	2	1	2	1	2	1
Midland	Unknown	3						1		1		1	1	3																		
	Total	60	3	5	7	5	4	4	7	4	4	7	5	4	25	3	3	3	4	5	1	2	1	2	1	2	1	1	2	7	1	1
	Males	31	1	2	5	2	2	2	3	3	5	4	2	2	14	1	2	2	4	1	1	1	1	1	1	1	1	1	2	4	1	1
Missaukee	Females	29	2	3	2	3	2	2	4	1	2	1	2	1	11	2	1	3		4	1	2	1	2	1	1	1	1	3	1	1	1
	Total	39	1	2	2	1	3	2	3	7	4	6	3	5	25	1	1	1	3	3	1	1	1	1	1	1	1	2	1	1	1	1
	Males	22	1	2	1	1	1	2	1	3	3	3	2	2	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Monroe	Females	17			1		2		2	4	1	3	1	3	10		1		2	2	1								1			
	Total	281	13	23	36	18	18	19	20	24	28	27	25	30	98	9	11	10	10	8	7	7	5	11	13	14	13	17	15	18	8	8
	Males	156	7	10	15	11	10	15	13	16	12	19	15	13	59	6	6	5	3	6	3	4	6	2	4	5	9	6	8	12	4	4
Montcalm	Females	125	6	13	21	7	8	4	7	8	16	8	10	17	39	3	5	5	7	2	4	3	1	3	7	8	5	7	9	7	6	4
	Total	208	12	15	16	16	30	13	17	13	19	17	17	21	63	18	9	15	6	11	9	10	7	7	12	7	8	5	6	6	8	1
	Males	118	7	8	11	6	17	5	11	7	13	10	8	14	34	8	5	6	1	6	5	5	2	7	10	5	6	4	5	4	5	5
Females	90	5	7	5	10	13	8	6	6	6	7	9	7	29	10	4	9	5	5	4	5	5	2	7	10	5	6	4	5	4	5	

DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

[illegible]

VITAL STATISTICS OF MICHIGAN, 1885.

TABLE 61.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age, 1885.

Counties.	Sex.	Year, 1885.	Months, 1885.										Ages in Periods of Years, 1885.																						
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.																				
			11	1	1	1	2	2	2	2	2	2	1	1	2																				
Schoolcraft...	Total.....	11	1	1	1	1	2	2	2	2	2	2	1	1	2	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.		
	Males.....	11	1	1	1	1	2	2	2	2	2	2	1	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Females.....																																		
Shiawassee....	Total.....	155	6	13	12	25	11	10	6	16	17	17	10	11	1	38	10	3	3	9	4	7	5	5	5	8	10	4	7	5	12	12	8		
	Males.....	80	3	4	8	14	5	4	2	10	8	8	6	7	1	20	5	1	1	4	1	2	3	1	1	3	8	3	4	3	9	7	5		
	Females.....	75	3	9	4	11	6	6	4	6	9	9	4	4	1	18	5	3	2	5	3	5	2	4	4	5	2	1	3	2	3	5	3		
St. Clair.....	Total.....	404	20	36	43	31	37	31	25	41	35	35	35	34	1	133	10	11	21	14	20	14	14	13	14	15	21	19	20	22	17	23	8		
	Males.....	219	11	21	17	21	17	16	14	20	23	23	19	17	1	80	5	6	7	7	13	5	5	2	5	7	6	10	9	13	17	10	14	3	
	Females.....	185	9	15	26	10	20	15	11	21	12	12	16	17	1	53	5	5	14	7	7	9	12	8	7	9	11	10	7	5	7	9	1		
St. Joseph....	Total.....	199	19	18	16	16	13	14	22	10	12	14	19	25	1	42	5	4	7	8	4	6	1	12	7	11	8	13	15	20	12	23	1		
	Males.....	106	8	8	7	9	8	7	14	4	7	8	10	15	1	23	4	3	2	3	1	1	1	9	3	5	3	9	9	10	6	14	1		
	Females.....	93	11	10	9	7	5	7	8	6	5	6	9	10	1	19	1	1	5	5	4	5	1	3	4	6	5	4	6	10	6	9	1		
Tuscola.....	Total.....	245	15	25	22	26	8	16	19	18	22	24	27	21	2	102	11	10	12	10	9	10	11	8	5	5	9	9	12	7	10	5	1		
	Males.....	123	8	12	12	3	7	10	11	11	11	13	13	10	1	58	7	5	6	4	2	4	4	3	3	3	6	4	6	2	6	3	1		
	Females.....	121	7	13	9	14	5	9	9	7	11	11	14	11	1	43	4	5	6	6	7	6	7	5	5	2	3	5	6	5	4	2	1		
Van Buren....	Total.....	250	18	14	31	28	24	12	13	21	17	27	21	24	1	62	12	12	12	18	12	8	14	8	9	9	9	10	18	11	12	17	7		
	Males.....	146	8	9	18	12	14	9	9	12	8	21	7	19	1	38	8	7	2	9	2	4	10	1	5	5	3	8	13	8	8	13	4		
	Females.....	104	10	5	13	16	10	3	4	9	9	6	14	5	1	24	4	5	10	9	10	4	4	7	4	4	6	2	5	3	4	4	3		

DEATHS—BY COUNTIES, BY SEX, BY MONTHS, BY AGE.

131

[illegible]

VITAL STATISTICS OF MICHIGAN, 1885.

COLOR OF DECEDENTS IN MICHIGAN IN 1885.

By table 62 it will be seen that as usual the per cent of white decedents to all deaths is less than the per cent of whites to all inhabitants, and that following the usual precedent the death-rate of whites and mulattoes is below the average, and all others are above. The deaths of males to females is above the figures of the past three years in all colors but black and mulatto, where it is unusually low.

In table 63 may be seen the deaths arranged by counties, by color and by sex.

TABLE 62.—Deaths returned for the year 1885, distinguishing the Color by Number and Proportion of each Sex; and by Sex, the Per Cent of Decedents of each Color to Total of all Colors; the Per Cent of Inhabitants of each Color to Total of all Colors; and the Per Cent of Decedents to Inhabitants.

Colors.	Sex.	Population, June 1, 1884.	Number of Deaths Returned.	Per Cent of Deaths of Each Sex to To- tal of Both Sexes.	Males to 100 Females.	Per Cent of Deaths of Each Color to Total of all Colors by Sex.	Per Cent of Inhabit- ants of each Color to total of all Col- ors by Sex, June 1, 1885.	Death - rate, Per Cent of Deaths in 1885 to Popula- tion in 1884.
All colors.....	Total.....	1,845,992	16,646	-----	-----	100.00	100.00	.90
	Males.....	970,168	9,025	54.39	119.24	100.00	100.00	.93
	Females..	875,618	7,569	45.61	-----	100.00	100.00	.86
	Unknown	206	52	-----	-----	100.00	100.00	-----
White	Total.....	1,822,944	16,290	-----	-----	97.86	98.76	.89
	Males....	958,183	8,847	54.42	119.42	98.03	98.77	.92
	Females..	864,751	7,410	45.58	-----	97.90	98.76	.86
	Unknown	10	33	-----	-----	63.46	4.85	-----
Black	Total.....	6,946	147	-----	-----	.88	.37	2.15
	Males.....	3,688	66	44.90	81.48	.73	.38	1.79
	Females..	3,158	81	55.10	-----	1.07	.36	2.56
Mulatto.....	Total.....	8,243	56	-----	-----	.34	.45	.68
	Males.....	4,201	28	50.00	100.00	.31	.43	.67
	Females..	4,042	28	50.00	-----	.37	.46	.69
Indian	Total.....	6,804	118	-----	-----	.71	.37	1.73
	Males.....	3,525	72	61.02	156.52	.80	.37	2.04
	Females..	3,279	46	38.98	-----	.61	.37	1.40
Unknown.....	Total.....	1,085	35	-----	-----	.21	.06	3.23
	Males.....	501	12	75.00	300.00	.13	.05	2.40
	Females..	388	4	25.00	-----	.05	.04	1.03
	Unknown	196	19	-----	-----	36.54	95.15	-----
Black and Mulatto.	Total.....	15,089	203	-----	-----	1.22	.82	1.35
	Males.....	7,889	94	46.31	86.24	1.04	.81	1.19
	Females..	7,200	109	53.69	-----	1.44	.82	1.51

* Includes 70 Asiatic males.

TABLE 63.—CONTINUED.—*Deaths by Counties, by Color, and by Sex.*

Counties.	All Colors, 1885.				White.				Black.			Mulatto.			Indian.			Unknown.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Ottawa.....	310	154	148	8	305	153	144	8	2	2	1	1	1	1	2	1	1	1	1	1	1
Presque Isle....	35	20	15	..	35	20	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roscommon.....	3	..	3	..	3	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Saginaw.....	755	433	321	1	739	426	313	..	2	2	..	..	..	..	13	7	6	1	..	..	1
Sanilac.....	266	130	134	2	266	130	134	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Schoolcraft.....	11	11	..	..	11	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Shiawassee.....	155	80	75	..	155	80	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Clair.....	404	219	185	..	401	218	183	..	..	..	..	3	1	2	..	..	..	..	..	..	..
St. Joseph.....	199	103	93	..	197	106	91	..	1	1	1	1	..	1	..	..	..	..	..	..	..
Tuscola.....	245	123	121	1	243	123	120	..	..	..	..	1	..	1	..	..	..	1	..	..	1
Van Buren.....	250	146	104	..	243	140	103	..	2	2	..	2	1	1	1	1	..	2	2	..	..
Washtenaw.....	335	203	132	..	324	197	127	..	11	6	5	..	..	..	..	..	..	..	..	..	..
Wayne.....	3,522	1,905	1,601	16	3,425	1,863	1,559	3	69	33	36	9	3	6	6	6	..	13	..	..	13
Wexford.....	77	41	35	1	76	41	34	1	..	..	..	..	..	..	..	..	..	1	..	..	1

NATIVITY OF DECEDENTS IN MICHIGAN.

The proportion of native-born decedents for 1885 is nearly three per cent below the average of the ten preceding years, while that of the foreign-born is 2.81 per cent greater than that average, as will be seen by examination of Table 64. In Massachusetts the per cent to total deaths in 1885 of native-born and foreign-born decedents was, respectively, 75.00 and 24.01.

As shown elsewhere in this report, comparisons based upon the total population are not just to the native-born, with its larger quota of children, therefore, Table 65, giving the nativity of decedents by periods of age, will enable the student to make his comparisons by the periods of ages most likely to eliminate that element. From this table we find the rate of deaths approximate each other as we pass out of childhood, and that the rate of foreign-born decedents shows a tendency to excess after the period of twenty to thirty.

TABLE 64.—*Nativity of Decedents in Michigan for the Years 1883-1885, and the Average for Ten Years ending with 1885.*

Nativity of Decedents.	Deaths, 1883.		Deaths, 1884.		Deaths, 1885.		Av. for 10 years, ending with 1884.	
	Number.	Per Cent of Total.	Number.	Per Cent of Total.	Number.	Per Cent of Total.	Number.	Per Cent of Total.
All nativities.....	16,906	100.00	18,056	100.00	16,646	100.00	15,139	100.00
Native-born.....	13,077	77.35	14,172	78.49	12,694	76.26	11,977	79.11
Foreign-born.....	3,383	20.01	3,380	18.72	3,482	20.92	2,741	18.11
Unknown.....	446	2.64	504	2.79	470	2.82	421	2.78

TABLE 65.—By Nativity, Sex, and Periods of Age, the Population of Michigan June 1, 1884, the Number of Deaths in 1885, and the Number of Deaths to 100 Living.

Ages in Years and Periods.	Inhabitants of Michigan June 1, 1884.				Deaths in Michigan in 1885.				Death-rate, number of Deaths to 100 Living.			
	All Nativities.		Native.		Foreign.		All Nativities.		Native.		Foreign.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Total.....	974,424	879,028	695,490	652,145	272,268	214,689	9,025	7,569	6,815	5,843	1,968	1,514
Under 5.....	114,852	111,116	108,681	105,166	5,972	5,703	3,516	2,707	3,450	2,648	48	45
5 to 10.....	110,293	107,363	96,903	94,952	13,126	12,491	429	388	380	355	38	30
10 to 15.....	99,721	96,503	86,116	83,467	13,373	12,858	256	245	233	220	21	23
15 to 20.....	92,033	91,010	72,783	72,803	18,910	17,997	264	323	202	273	55	41
20 to 30.....	190,217	163,177	122,788	115,746	65,028	46,937	685	805	452	556	207	222
30 to 40.....	139,282	116,333	80,547	74,032	57,369	41,981	556	605	308	385	231	204
40 to 50.....	97,381	85,868	53,408	52,016	43,354	33,674	536	563	291	252	253	223
50 to 60.....	68,020	56,521	37,026	32,813	30,651	23,550	640	480	295	276	318	191
60 to 70.....	40,743	33,149	23,640	19,918	16,939	13,139	784	537	419	293	334	217
70 to 80.....	16,772	13,949	10,801	9,000	5,886	4,869	757	575	457	353	298	197
80 and over.....	4,034	3,650	2,617	2,377	1,389	1,263	471	323	289	186	157	108
Unknown ages.....	1,106	350	182	125	272	117	131	78	59	46	38	13

VITAL STATISTICS OF MICHIGAN, 1885.

TABLE 66.—*Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of Decedents in Michigan returned for the Year 1885.*

State and Counties.	All Nativities, 1885.				Native.				Foreign.				Unknown.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
State.....	16,646	9,025	7,569	52	12,604	6,815	5,843	36	3,482	1,968	1,514	1	470	242	212	16
Alcona.....	31	16	15	1	21	10	11	1	8	5	3	1	2	1	1	1
Alger.....	3	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1
Allegan.....	301	158	143	1	231	124	107	1	46	25	21	1	24	9	15	1
Aipena.....	100	54	46	1	74	43	31	1	23	8	15	1	3	3	1	1
Antrim.....	55	29	26	1	41	22	19	1	14	7	7	1	1	1	1	1
Arenac.....	35	22	13	1	25	16	9	1	10	6	4	1	1	1	1	1
Baraga.....	34	19	15	1	24	13	11	1	10	6	4	1	1	1	1	1
Barry.....	123	61	62	1	112	56	56	1	10	4	6	1	1	1	1	1
Bay.....	463	261	202	1	339	195	144	1	124	66	58	1	1	1	1	1
Benzie.....	50	24	26	1	44	20	24	1	6	4	2	1	1	1	1	1
Berrien.....	312	178	131	3	242	140	100	2	52	31	21	1	18	7	10	1
Branch.....	223	111	112	1	200	98	102	1	15	9	6	1	8	4	4	1
Calhoun.....	304	161	138	5	252	131	114	4	36	19	17	1	16	8	7	1
Cass.....	148	82	65	1	135	74	60	1	8	5	3	1	5	3	2	1
Charlevoix.....	56	37	19	1	46	32	14	1	9	4	5	1	1	1	1	1
Cheboygan.....	74	43	31	1	58	33	25	1	16	10	6	1	1	1	1	1
Chippewa.....	62	37	25	1	49	29	20	1	11	8	3	1	2	1	2	1
Clare.....	49	23	26	1	38	19	19	1	9	3	6	1	2	1	1	1
Clinton.....	181	94	84	3	146	77	66	3	27	13	14	1	8	4	4	1
Crawford.....	23	15	8	1	17	9	8	1	6	6	1	1	1	1	1	1
Delta.....	74	32	42	1	60	26	34	1	13	6	7	1	1	1	1	1
Eaton.....	280	146	134	1	250	130	120	1	9	5	4	1	21	11	10	1
Emmet.....	80	41	39	1	68	36	32	1	5	3	2	1	7	2	5	1
Genesee.....	282	155	127	1	231	125	106	1	38	21	17	1	13	9	4	1
Gladwin.....	7	6	1	1	6	5	1	1	1	1	1	1	1	1	1	1
G'd Traverse.....	87	46	41	1	77	43	34	1	10	3	7	1	1	1	1	1
Gratiot.....	120	66	53	1	97	55	41	1	22	11	11	1	1	1	1	1
Hilledale.....	242	131	111	1	205	110	95	1	29	16	13	1	8	5	3	1
Houghton.....	252	163	88	1	186	119	66	1	61	40	21	1	5	4	1	1
Huron.....	174	101	73	1	119	68	51	1	53	32	21	1	2	1	1	1
Ingham.....	297	146	150	1	235	107	127	1	48	29	19	1	14	10	4	1
Ionia.....	264	129	135	1	209	103	106	1	34	17	17	1	21	9	12	1
Iosco.....	120	68	52	1	91	50	41	1	10	7	3	1	19	11	8	1
Iron.....	29	13	14	2	17	7	8	2	11	6	5	1	1	1	1	1
Isabella.....	172	92	80	1	147	78	69	1	22	12	10	1	3	2	1	1

TABLE 66.—CONTINUED.—*Deaths by Counties, by Nativity, and by Sex.*

Counties.	All Nativities.				Native.				Foreign. *				Unknown.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
Jackson.....	315	166	149	---	265	130	135	---	41	29	12	---	9	7	2	---
Kalamazoo.....	304	170	134	---	249	134	115	---	51	34	17	---	4	2	2	---
Kalkaska.....	36	22	14	---	30	20	10	---	4	1	3	---	2	1	1	---
Kent.....	694	358	335	1	512	284	227	1	163	84	79	---	19	10	9	---
Keweenaw.....	38	26	11	1	24	15	8	1	10	9	1	---	4	2	2	---
Lake.....	23	12	11	---	15	9	6	---	8	3	5	---	---	---	---	---
Lapeer.....	194	99	95	---	150	76	74	---	42	21	21	---	2	2	---	---
Leelanaw.....	60	25	35	---	49	20	29	---	10	4	6	---	1	1	---	---
Lenawee.....	368	192	176	---	296	154	142	---	56	31	25	---	16	7	9	---
Livingston.....	143	76	67	---	111	61	50	---	30	15	15	---	2	---	2	---
Mackinac.....	51	33	18	---	44	29	15	---	4	4	---	---	3	---	3	---
Macomb.....	299	160	139	---	221	106	115	---	77	53	24	---	1	1	---	---
Manistee.....	159	93	65	1	129	76	52	1	30	17	13	---	---	---	---	---
Manitou.....	3	3	---	---	2	2	---	---	1	1	---	---	---	---	---	---
Marquette.....	303	166	137	---	209	98	111	---	91	67	24	---	3	1	2	---
Mason.....	75	35	40	---	57	30	27	---	17	4	13	---	1	1	---	---
Mecosta.....	123	70	53	---	84	47	37	---	37	22	15	---	2	1	1	---
Menominee.....	152	93	56	3	93	55	38	3	52	34	18	---	7	4	3	---
Midland.....	60	31	29	---	56	29	27	---	4	2	2	---	---	---	---	---
Missaukee.....	39	22	17	---	34	19	15	---	5	3	2	---	---	---	---	---
Monroe.....	281	156	125	---	217	121	96	---	55	30	25	---	9	5	4	---
Montcalm.....	208	118	90	---	175	97	78	---	22	16	6	---	11	5	6	---
Montmorency.....	10	4	6	---	9	4	5	---	1	---	1	---	---	---	---	---
Muskegon.....	322	171	151	---	233	126	107	---	83	41	42	---	6	4	2	---
Newaygo.....	101	51	50	---	87	45	42	---	13	6	7	---	1	---	1	---
Oakland.....	310	179	131	---	230	131	99	---	74	44	30	---	6	4	2	---
Oceana.....	134	68	66	---	117	60	57	---	14	7	7	---	3	1	2	---
Ogemaw.....	26	19	7	---	15	10	5	---	10	8	2	---	1	1	---	---
Ontonagon.....	18	13	5	---	9	4	5	---	8	8	---	---	1	1	---	---
Osceola.....	92	44	48	---	71	34	37	---	19	9	10	---	2	1	1	---
Oscoda.....	7	3	4	---	7	3	4	---	---	---	---	---	---	---	---	---
Otsego.....	24	14	10	---	16	11	5	---	4	2	2	---	4	1	3	---
Ottawa.....	310	154	148	8	204	103	93	8	88	44	44	---	18	7	11	---
Presque Isle.....	35	20	15	---	18	8	10	---	17	12	5	---	---	---	---	---
Roscommon.....	3	---	3	---	2	---	2	---	1	---	1	---	---	---	---	---
Saginaw.....	755	433	321	1	519	301	217	1	225	126	99	---	11	6	5	---

TABLE 66.—CONTINUED.—Deaths by Counties, by Nativity, and by Sex.

Counties.	All Nativities.				Native.				Foreign.				Unknown.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
Sanilac.....	266	130	134	2	169	75	92	2	93	53	40		4	3	3	
Schoolcraft.....	11	11			8	3			5	5			3	3		
Shiawassee.....	155	80	75		131	67	64		19	10	9		5	3	2	
St. Clair.....	404	219	185		260	157	103		135	56	79		9	6	3	
St. Joseph.....	199	106	93		169	89	80		26	15	11		4	2	2	
Tuscola.....	245	123	121	1	205	106	98	1	36	16	20		4	1	3	
Van Buren.....	250	146	104		211	125	86		26	14	12		13	7	6	
Washtenaw.....	335	203	132		243	136	107		71	53	18		21	14	7	
Wayne.....	3,522	1,905	1,601	16	2,585	1,382	1,200	3	887	501	386		50	22	15	13
Wexford.....	77	41	35	1	65	36	29		10	5	5		2		1	1

CAUSES OF DEATH, 1885.

The per cent of deaths returned as unknown and unclassified in 1874 was 12.11, but almost every year since has seen a reduction of this per cent, so that for 1885 it stands at 6.06, just about one-half of what it was twelve years previous. No doubt with reasonable diligence on the part of those taking these statistics it might be reduced to a merely nominal figure. In the Massachusetts report for 1885 the per cent of unknown and unclassified is but 1.3. That State also shows a gradual reduction in this respect, the above being 3.3 per cent lower than the returns for 1871.

Table 67 shows a falling off in deaths from zymotic diseases of over four per cent from the returns of 1884, and a small increase in each of the other four grand divisions. The most noticeable contrasts between the year 1885 and the average are a decrease of nearly six per cent in zymotic and an increase of over five per cent in developmental diseases.

VIOLENT DEATHS.

There is no material change in the number of violent deaths, of which 907 were reported, to 898 in 1884 and 940 in 1883. An examination of table 72, giving the number of deaths for twelve years from seven of the most prominent causes, shows a falling off from the report of 1884 of 18 deaths from drowning and 13 from suicides, with an increase of 10 cases in poisoning and a smaller increase in freezing, homicide and railroad accidents.

In the number of their inhabitants Massachusetts and Michigan are nearly equal, and it, therefore, is a matter of considerable interest to note comparisons between the two States in the various matters relating to this report. Thus we find Massachusetts reporting for 1885, 110 deaths from burns and scalds, being 43 more than Michigan; in poisoning 49, or 23 more; in railroad accidents, 187 to 76; drowning, 295 to 132; freezing, 5 to 6; homicides, 15 to 28; suicides, 176 to 91. That these comparisons are not accidental, we give the average per year of the two States for the ten years ending with 1885, the first figures being for Massachusetts and the second for Michigan: Burns and scalds, 96 to 75; poisoning, 42 to 22; railroad accidents, 155 to 59; drowning, 355 to 140; freezing, 4 to 3; homicides, 15 to 15; and suicides, 156 to 71.

It would be interesting to know what causes this great difference in the fatalities of the two States, whether it is due to a more perfect registration in Massachusetts, or to more care on the part of the inhabitants of this State.

TABLE 67.—*Number of Deaths returned from All Causes, from each Class of Causes, and the Per Cent of Deaths from each Class of Causes to Deaths from all Causes for the Years 1883-1885, and the Average for Ten Years, 1875-1884.*

Causes of Deaths,—Classes.	1883.		1884.		1885.		Average for 10 Years, 1875-1884.	
	Number	Per Cent of Total.	Number.	Per Cent of Total.	Number.	Per Cent of Total.	Number.	Per Cent of Total.
All causes	16,906	100.00	18,056	100.00	16,646	100.00	15,139	100.00
I.—Zymotic diseases.....	4,397	26.01	4,676	25.90	3,623	21.76	4,192	27.69
II.—Constitutional diseases.....	2,817	16.66	3,065	17.14	2,879	17.30	2,543	16.80
III.—Local diseases.....	4,923	29.12	5,356	29.66	5,244	31.50	4,250	28.13
IV.—Developmental diseases.....	2,369	14.01	2,880	15.95	2,985	17.93	1,918	12.67
V.—Violent deaths.....	940	5.56	898	4.97	907	5.45	789	5.21
Unknown and unclassified.....	1,460	8.64	1,151	6.38	1,008	6.06	1,438	9.50

TABLE 68.—*By Months, the Number of Deaths returned in Michigan from All Causes and from each Class of Causes during the Year 1885.*

Causes of Death,—Classes.	Year, 1885.	Months of Death, 1885.												
		Jan.	Feb.	Mar.	April	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
All causes	16,646	1131	1267	1421	1474	1286	1185	1303	1486	1559	1492	1362	1564	56
I.—Zymotic diseases.....	3,623	262	243	229	250	207	203	346	427	426	380	305	337	8
II.—Constitutional diseases.....	2,879	172	229	259	287	251	231	240	236	245	240	233	247	9
III.—Local diseases.....	5,244	365	459	496	488	442	369	365	390	449	438	446	524	13
IV.—Developmental diseases.....	2,985	224	216	277	294	230	209	242	254	257	250	237	282	13
V.—Violent deaths.....	907	50	43	58	69	66	99	100	93	81	89	80	77	2
Unknown and unclassified.....	1,008	58	77	102	86	90	74	70	86	101	95	61	97	11

The mortality in Michigan, for the last twelve years, from some of the most destructive diseases in each of the five great classes, may be seen in the tables which follow. By these tables the reader may see the diseases of each class which were more than usually fatal and prevalent in 1885 as compared with former years.

TABLE 69.—Deaths in Michigan from some of the Prominent Zymotic Diseases during the Twelve Years, 1874-1885.

Years.	Diseases.						
	Typhoid Fever.	Whooping Cough.	Croup.	Diphtheria.	Measles.	Scarlet Fever.	Small-pox.
1874.....	610	153	142	213	46	440	18
1875.....	433	101	167	307	134	423	26
1876.....	426	181	178	311	118	399	76
1877.....	446	131	164	598	62	404	102
1878.....	329	132	236	887	16	429	6
1879.....	397	162	278	1,473	167	418	6
1880.....	513	264	322	1,542	125	370	3
1881.....	884	142	380	2,063	256	383	82
1882.....	463	86	349	1,416	150	592	100
1883.....	439	92	336	1,007	258	673	5
1884.....	514	160	325	1,065	144	328	3
1885.....	387	138	498	1,054	38	245	3
Average.....	487	145	281	986	126	425	26

TABLE 70.—Deaths in Michigan from some of the Principal Local Diseases, returned for the Twelve Years, 1874-1885.

Years.	Diseases.					
	Convulsions.	Heart Disease.	Bronchitis.	Pleurisy.	Peritonitis.	Bright's Disease.
1874.....	144	340	34	15	8	14
1875.....	164	308	43	14	14	11
1876.....	185	339	43	19	8	22
1877.....	298	394	42	14	8	35
1878.....	288	368	46	16	11	32
1879.....	275	451	53	20	16	36
1880.....	348	482	50	26	12	80
1881.....	337	518	76	19	20	89
1882.....	356	562	106	16	21	138
1883.....	344	684	89	20	16	187
1884.....	436	718	98	18	27	179
1885.....	452	730	113	16	22	198
Average.....	302	491	66	18	15	85

TABLE 71.—Deaths in Michigan from Chief Developmental Diseases, returned for the Twelve Years, 1874-1885.

Years.	Diseases.					
	Teething.	Still-born, Infantile, Premature	Child- birth.	Abortion.	Puerperal Con- vulsions.	Old Age.
1874.....	89	510	197	7	4	428
1875.....	71	701	173	10	5	373
1876.....	77	716	141	7	6	463
1877.....	66	785	151	6	5	469
1878.....	60	858	161	7	3	579
1879.....	40	787	193	12	5	608
1880.....	49	808	193	6	2	625
1881.....	84	761	192	8	.....	725
1882.....	83	890	199	9	3	647
1883.....	55	1,084	221	12	4	726
1884.....	57	1,462	222	6	4	796
1885.....	49	1,612	217	12	1	773
Average.....	65	910	188	9	4	604

TABLE 72.—Deaths in Michigan from some of the Prominent Violent Causes, returned for the Twelve Years, 1874-1885.

Years.	Burns and Scalds.	Poison.	Railroad Accidents.	Drowning.	Freezing.	Homicide.	Sulicide.	Totals.
1874.....	71	21	47	116	5	11	53	324
1875.....	70	15	33	108	4	17	52	299
1876.....	66	19	37	172	4	12	54	364
1877.....	60	21	42	103	1	14	66	307
1878.....	66	27	46	117	2	11	63	332
1879.....	64	15	40	122	5	15	59	320
1880.....	64	22	40	179	3	7	65	390
1881.....	175	25	75	125	2	15	57	474
1882.....	57	22	58	140	3	11	62	353
1883.....	65	33	109	158	.....	15	91	471
1884.....	69	16	73	150	1	24	104	437
1885.....	67	26	76	132	6	28	91	426
Average.....	75	22	56	135	3	15	68	374

TABLE 73.—Deaths in Michigan Returned from Brain Disorders—Twelve Years.

Years.	Softening of the Brain.	Apoplexy.	Paralysis.	Insanity.	Cephalitis and Unspecified Brain Diseases.	Totals.
1874.....	15	63	169	7	406	660
1875.....	29	89	170	8	338	634
1876.....	30	107	230	13	452	832
1877.....	29	85	246	17	456	833
1878.....	25	91	241	11	370	738
1879.....	25	103	262	7	400	797
1880.....	27	119	273	8	475	907
1881.....	23	110	258	10	541	942
1882.....	36	87	357	8	448	936
1883.....	22	85	345	22	439	913
1884.....	40	130	397	17	524	1,108
1885.....	36	116	400	24	491	1,067
Average.....	28	99	279	13	445	864

DEATHS IN 1885, GROUPED BY PART OF BODY DISEASED.

Deaths from affections of the lungs stand as usual largely in excess of other parts of the body, being over one-fifth of the total deaths, and varying very little from the proportion of last year and the average of the past ten years. Deaths from bowel diseases were unusually low, nearly three per cent below the average, which causes deaths from brain diseases to take second place this year, with diseases of the bowels third, and the four remaining groups following in their usual order.

TABLE 74.—Order of Seven Groups of Causes of Deaths returned for the Years 1883 to 1885, inclusive, and the Average for Ten Years, 1875-1884.

1883.			1884.			1885.			Average for 10 Years, 1875-1884.		
Disease of	Number.	Per Cent to all Causes.	Disease of	Number.	Per Cent to all Causes.	Disease of	Number.	Per Cent to all Causes.	Disease of	Number.	Per Cent to all Causes.
All causes.	16,906	100.00	All causes	18,056	100.00	All causes	16,646	100.00	All causes	15,139	100.00
Lungs.....	3,299	19.51	Lungs....	3,620	20.05	Lungs....	3,360	20.19	Lungs.....	3,041	20.09
Brain.....	1,845	10.91	Bowels....	2,453	13.59	Brain.....	2,068	12.36	Bowels....	1,852	12.23
Bowels....	1,756	10.39	Brain.....	2,137	11.84	Bowels....	15.80	9.49	Brain.....	1,698	11.22
Throat....	1,389	8.22	Throat....	1,425	7.89	Throat...	1,424	8.56	Throat...	1,371	9.06
Heart.....	785	4.64	Heart.....	822	4.55	Heart.....	833	5.00	Heart.....	573	3.78
Kidneys...	345	2.04	Kidneys..	347	1.92	Kidneys..	411	2.47	Kidneys..	246	1.62
Liver.....	140	.83	Liver.....	154	.85	Liver.....	150	.90	Liver.....	136	.90
7 groups...	9,559	56.54	7 groups..	10,958	60.69	7 groups..	9,816	58.97	7 groups..	8,917	58.90

TABLE 75.—*Eleven Geographical Divisions of the State, formed for the purpose of facilitating the study of Causes of Death, with a list of Counties included in each Division.*

Upper Peninsular.	Northwestern.	Northern.	Northeastern.	Western.	Northern Central.	Eastern.	Central.	South- western.	Southern Central.	South- eastern.
Alger. ^a	Benzie.	Antrim.	Alcona. ¹	Kent.	Clare.	Arenac.	Barry.	Allegan.	Branch.	Macomb.
Baraga.	Gr.Traverse. ^o	Charlevoix.	Alpena. ^j	Lake.	Gladwin.	Bay.	Clinton.	Berrien.	Calhoun.	Monroe.
Chippewa. ^b	Leelanaw.	Cheboygan.	Iosco.	Mason. ^k	Isabella.	Huron.	Eaton.	Cass.	Hillsdale.	Oakland.
Delta.	Manistee.	Crawford. ^g	Montmorency.	Muskegon.	Mecosta. ¹	Lapeer.	Genesee.	Van Buren.	Jackson.	Wayne.
Houghton.	Manitou.	Emmet.	Ogemaw.	Newaygo.	Midland.	Saginaw. ^a	Gratiot.		Kalamazoo.	
Iron.	Missaukee.	Kalkaska.	Oscoda.	Oceana.	Roscomm'n. ^m	Sanilac.	Ingham.		Lenawee.	
Isle Royal. ^c	Wexford. ⁱ	Otsego. ^h	Presque Isle.	Osceola.		St. Clair.	Ionla.		St. Joseph.	
Keweenaw.				Ottawa.		Tuscola.	Livingston.		Washtenaw.	
Mackinac.							Montcalm.			
Marquette.							Shiawassee.			
Menominee.										
Ontonagon. ^d										
Schoolcraft.										

No returns of deaths from the following townships:

^a Autrain and Munising.
^c Mayfield and Union.
^h Hayes.
ⁱ Sheridan.

^b Pickford.
^f Concord and Springville.
^j Harrisville.
^m Higgins.

^o All townships.
^g Beaver Creek, Blaine and Center Plains.
^k Maple Ridge.
ⁿ Kochville and Lakefield.

^d Bessemer and Ironwood.
^e Hamlin.

DEATHS, 1885, BY CLASSES OF CAUSES, BY DIVISIONS OF THE STATE.

In proportion of deaths to population the southeastern division is again at the head, with a trifle higher death-rate than in 1884, when it was 1.48 per cent. The northeastern, which was lowest last year, stands next the highest this year, while the northern division with its ratio of .76 of one per cent is the lowest.

Table 77 shows the diseases included in each of these classes and the counties in which the deaths occurred, while Table 78 gives the specified causes of death by months and periods of age.

TABLE 76.—*Exhibiting, by Geographical Divisions, the Number of Deaths, the Per Cent of Deaths in 1885 to Population in 1884, the Per Cent of Deaths for each Division to Total Deaths for the State, and the Per Cent of Deaths from each Class of Causes to Deaths from All Causes.*

State and Geographical Divisions.	Population June 1, 1884, Represented by Deaths in 1885.	Deaths Reported, 1885.		Per Cent of all Deaths in 1885 to Population in 1884.	Per Cent of Deaths from each class of Causes to Deaths from all Causes, by Geographical Divisions.					
		Number.	Per Cent of Total.		Class I.—Zymotic Diseases.	Class II.—Constitutional Diseases.	Class III.—Local Diseases.	Class IV.—Developmental Diseases.	Class V.—Violent Deaths.	Unknown and Unclassified.
State.....	1,845,992	16,646	100.00	.90	21.76	17.30	31.50	17.93	5.45	6.06
Upper Peninsular.....	115,575	1,027	6.17	.89	23.86	11.10	20.74	19.86	12.27	12.17
Northwestern.....	57,540	475	2.85	.83	17.89	14.74	31.58	23.16	5.47	7.16
Northern.....	45,980	348	2.09	.76	20.11	16.67	25.29	19.54	6.61	11.78
Northeastern.....	35,009	329	1.98	.94	23.10	9.73	20.67	19.76	11.24	15.50
Western.....	226,358	1,751	10.52	.77	24.21	16.05	31.12	16.85	5.54	6.23
Northern Central.....	53,915	414	2.49	.77	24.88	17.63	26.33	18.36	6.76	6.04
Eastern.....	290,554	2,536	15.24	.87	20.47	16.36	30.36	20.74	5.25	6.82
Central.....	299,364	2,053	12.33	.69	19.09	20.75	34.34	15.98	5.31	4.53
Southwestern.....	127,985	1,011	6.07	.79	16.72	20.87	33.73	17.80	6.43	4.45
Southern Central.....	299,000	2,290	13.76	.77	16.68	20.48	37.47	16.51	4.23	4.63
Southeastern.....	294,712	4,412	26.50	1.50	26.25	16.55	31.66	17.11	3.76	4.67

III.—1. Diseases of Nervous System.....	1,607	1	....	36	10	6	3	3	15	39	4	29	18	38	19	4	4	6	25	2	10	33	6	38	....	13
2. Diseases of Organs of Circulation...	815	2	20	5	1	1	9	15	4	18	22	14	10	3	1	2	12	1	11	2	17	5
3. Diseases of Respiratory Organs.....	1,185	25	8	6	2	2	6	35	3	28	13	39	14	4	5	2	4	17	2	1	12	6	21	9
4. Diseases of Digestive Organs.....	757	13	1	6	1	1	12	24	2	10	11	12	12	4	2	1	4	9	1	3	12	2	16	9
5. Diseases of Urinary Organs.....	413	2	5	1	2	7	6	2	14	15	12	9	2	2	1	9	1	17	11	1	5
6. Diseases of Generative Organs.....	23	....	....	....	....	....	....	....	1	....	....	....	1	....	3	....	....	....	....	....	1	1	....	....	....	....
7. Diseases of Organs of Locomotion...	14	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8. Diseases of Integumentary System...	130	....	....	1	3	....	....	1	3	3	....	1	1	7	2	....	....	1	1	2	....	5	1	2	....	....
IV.—1. Developmental Dis. of Children.....	1,676	7	34	13	6	4	2	7	38	7	36	17	24	13	13	9	11	6	14	3	12	35	11	26	3	9
2. Developmental Dis. of Women.....	241	3	2	1	1	11	2	3	2	1	4	2	1	2	2	1	1	1	1	2
3. Developmental Dis. of Old People...	773	25	2	1	2	2	4	11	2	22	12	18	3	1	3	8	1	18	5	16	7
4. Diseases of Nutrition.....	295	....	....	1	....	....	....	....	39	1	1	3	3	1	2	....	1	1	1	2	2	....	2	....	....	....
V.—1. Accident or Negligence.....	490	3	10	4	2	1	4	24	3	7	6	11	5	1	5	2	1	4	3	4	2	8	1
2. Battle.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3. Homicide.....	29	....	....	2	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	2	1	....	....	2	....	....
4. Suicide.....	91	....	....	1	1	1	....	1	2	2	8	....	6	3	....	....	....	....	2	2	....	....	....	1	....	....
5. Execution.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6. Violent Deaths.....	297	5	4	2	2	1	3	6	1	6	4	3	2	4	4	2	3	1	4	3	1
CLASS I.—ZYMOTIC.....	3,623	7	2	50	30	9	3	12	18	121	11	50	41	61	19	13	17	15	9	35	8	25	41	12	45	3	9
I.—ORDER 1. Miasmatic.....	3,581	7	2	49	30	9	3	12	18	120	11	50	41	61	18	13	17	15	8	35	8	25	38	12	45	3	9
1. Small-pox.....	7	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....
2. Measles.....	38	....	....	2	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	3	....	....	....	....
3. Scarletina.....	245	....	....	....	9	1	1	....	2	12	....	4	1	2	2	1	1	....	....	....	3	2	4	....	....	....
4. Diphtheria.....	1,054	....	....	5	2	....	1	1	4	19	....	7	15	10	3	3	4	8	2	4	4	2	6	3	25	2
5. Quinsy.....	9	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	2	....	....
6. Group.....	337	2	2	7	6	2	....	2	1	21	1	5	2	3	1	....	2	....	....	....	....	3	4	1	....	....

[illegible]

[illegible]

III.—1. Diseases of Nervous System.....	1,567	1	36	10	6	3	3	15	36	4	29	18	38	19	4	4	6	25	2	10	33	6	38	13			
2. Diseases of Organs of Circulation...	815	2	20	5	1	1	1	9	15	4	18	22	14	10	3	1	2	12	1	11	2	17	5				
3. Diseases of Respiratory Organs.....	1,185	—	23	8	6	2	2	6	35	3	28	13	39	14	4	5	2	4	17	2	1	12	6	21	9		
4. Diseases of Digestive Organs.....	757	—	13	1	6	1	1	12	24	2	10	11	12	12	4	2	1	4	9	1	3	12	2	16	9		
5. Diseases of Urinary Organs.....	413	2	5	1	—	2	—	7	6	2	14	15	12	9	2	2	—	1	9	1	17	—	11	1	5		
6. Diseases of Generative Organs.....	23	—	—	—	—	—	—	1	—	—	—	1	—	3	—	—	—	—	—	—	1	1	—	—	—		
7. Diseases of Organs of Locomotion...	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
8. Diseases of Integumentary System...	130	—	1	3	—	—	—	1	3	3	—	1	1	7	2	—	1	1	2	—	—	5	1	2	—		
IV.—1. Developmental Dis. of Children...	1,676	7	34	13	6	4	2	7	38	7	36	17	24	13	13	9	11	6	14	3	12	35	11	26	3	9	
2. Developmental Dis. of Women.....	241	—	3	2	1	1	—	—	11	2	3	2	1	4	—	2	1	2	2	—	1	1	1	2	—	—	
3. Developmental Dis. of Old People...	773	—	25	2	1	2	2	4	11	2	22	12	18	3	1	—	3	—	8	1	—	18	5	16	7		
4. Diseases of Nutrition.....	235	—	1	—	—	—	—	—	39	1	1	3	3	1	2	—	1	1	1	2	2	2	—	2	—	—	
V.—1. Accident or Negligence.....	490	3	10	4	2	1	—	4	24	3	7	6	11	5	1	5	2	1	4	—	3	4	2	8	1	—	
2. Battle.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
3. Homicide.....	29	—	2	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	2	1	—	—	2	—	—	—	
4. Suicide.....	91	—	1	—	1	—	—	1	2	2	8	—	6	3	—	—	—	2	2	—	—	—	1	—	—	—	
5. Execution.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6. Violent Deaths.....	297	—	5	4	2	2	1	3	6	1	6	4	3	2	—	4	4	2	3	—	1	4	3	—	1	—	
CLASS I.—ZYMOTIC.....	3,623	7	2	50	30	9	3	12	18	121	11	50	41	61	19	13	17	15	9	35	8	25	41	12	45	8	9
I.—ORDER 1. Miasmatic.....	3,531	7	2	49	30	9	3	12	18	120	11	50	41	61	18	13	17	15	8	35	8	25	38	12	45	3	9
1. Small-pox.....	7	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	—	—	—	—	—
2. Measles.....	38	—	—	2	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	3	—	—	—	—	—	—
3. Scarletina.....	245	—	—	9	1	1	1	2	12	—	4	1	2	2	1	1	—	—	—	—	3	2	4	—	—	—	—
4. Diphtheria.....	1,054	—	5	2	—	—	1	1	4	19	7	15	10	3	3	4	8	2	4	4	2	6	3	25	2	—	—
5. Quinsy.....	9	—	—	1	—	—	—	—	—	—	1	—	—	—	—	—	1	—	—	—	—	—	—	2	—	—	—
6. Croup.....	337	2	2	7	6	2	—	2	1	21	1	5	2	3	1	—	2	—	—	—	—	3	4	1	—	—	—

[illegible]

TABLE 77.—CONTINUED.—*Causes of Death, Classified.*

Causes of Death,—1885.		Counties, 1885.																									
	State.	Alcona.	Alger.	Allagan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gr. Traverse.
8. Intussusception.....	9																						1				
9. Stricture of Intestines.....	1																										
10. Fistula.....																											
11. Stomach Diseases.....	104			1		2			3	2		1	2	1	5					1	1	2	4	1	3		4
12. Pancreas Diseases.....																											
13. Hepatitis.....	6																										
14. { Biliary Calculus.....																											
{ Jaundice.....	44									1	1	1	1	1	2								1	1			
15. Liver Disease.....	100			1		1				1	1		3	5	1	1			2	1		2		2			
16. Spleen Disease.....	1																										
17. Bowel Diseases, etc.....	44						1		3	2				1	1					2							
18. Mouth Disease.....	9																			1				1			
III.—ORDER 5. Urinary Organs.....	413	2		5	1		2		7	6	2	14	15	12	9	2	2		1	9	1	17		11	1	5	
1. Nephritis.....	17			1								1		2													
2. Ischuria.....																											
3. Bright's Disease of Kidneys.....	198			1	1				4	2		12	6	7	5	1	1			4		8		6		2	
4. Diabetes.....	65	2		1			1				1		3	3	2				1	1		5		4		2	
5. Calculus (Gravel, etc.).....	21						1		1						2	1				1	1			1		1	
6. Cystitis.....	15												1														
7. Kidney Disease.....	97			2					2	4	1	1	5				1			3		4		1		1	

[illegible]

CAUSES OF DEATH, CLASSIFIED.

V.-ORDER 4. Suicide	91	1	1	1	1	1	2	2	8	6	3			2				1	.....							
1. Wounds	10	1					1		2		1								1	.....						
2. Poison	11									1				2	1				1	.....						
3. Drowning	4																			.....						
4. Hanging	14						1	2	3	8										.....						
5. Otherwise and not Specified	52		1				1		3	2	2			1						.....						
V.-ORDER 5. Execution																				.....						
1. Hanging																				.....						
V.-ORDER 6. Violent Deaths not included above	27	5	4	2	1	3	6	1	6	4	3	2	4	4	2	3	1	4	3	1						
UNCLASSIFIED	57	1			1	1	2		1		1			5				1		1						
1. Head disease																				.....						
2. Hemorrhage	12						1													1						
3. Inflammation	44	1			1	1			1		1			5				1								
4. Otherwise	1								1																	
Causes not specified	951	3	1	10	9	7	1	4	4	15	3	11	10	8	4	4	7	5	2	4	1	6	7	13	6	3	

TABLE 77.—CONTINUED.—Causes of Death, Classified.

Causes of Death,—1885.		Counties, 1885.																											
		Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leechaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Meconine.	Midland.	
All Causes.....	120	242	252	174	237	284	120	120	29	172	315	304	36	684	38	23	194	60	368	143	51	299	159	3	303	75	123	152	60
Specified Causes.....	112	221	197	153	284	249	100	27	164	299	293	33	668	37	23	188	58	352	135	44	293	150	3	296	66	116	123	56	
Causes not Specified.....	8	21	55	21	13	15	20	2	8	16	11	3	26	1	.....	6	2	16	8	7	6	9	.....	7	9	7	29	4
CLASSES.																													
I.—Zymotic Diseases.....																													
II.—Constitutional Diseases.....																													
III.—Local Diseases.....																													
IV.—Developmental Diseases.....																													
V.—Violent Deaths.....																													
Unclassified.....																													
ORDERS.																													
I.—1. Miasmatic Diseases.....																													
2. Enthetic Diseases.....																													
3. Dietic Diseases.....																													
4. Parasitic Diseases.....																													
II.—1. Diathetic Diseases.....																													
2. Tubercular Diseases.....																													

III.—1. Diseases of Nervous System.....	16	31	11	22	30	27	15	4	20	41	36	1	87	3	4	25	8	45	17	1	43	21	24	8	12	10	
2. Diseases of Organs of Circulation.....	4	20	11	4	17	13	2	1	4	21	20	3	41	.....	2	8	1	21	8	2	16	5	5	6	3	3
3. Diseases of Respiratory Organs.....	10	13	14	11	14	17	4	.....	6	29	21	2	49	6	1	13	7	30	10	2	15	12	23	4	3	7
4. Diseases of Digestive Organs.....	2	10	8	5	24	12	1	2	4	15	22	4	40	1	1	14	2	13	10	4	18	2	15	7	7	2	
5. Diseases of Urinary Organs.....	2	10	2	2	7	6	.....	.....	2	13	6	1	12	1	.....	4	1	18	8	.....	9	2	5	2	2	1
6. Diseases of Generative Organs.....	1	.....	1	1	1	.....	1	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
7. Diseases of Organs of Locomotion.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....
8. Diseases of Integumentary System.....	2	3	1	4	1	1	.....	.....	4	2	.....	2	.....	.....	.....	3	1	1	.....	4	2	.....	.....	3	1	.....
IV.—1. Developmental Dis. of Children.....	15	8	37	29	23	18	14	8	18	17	25	2	69	5	3	14	9	22	6	1	23	24	1	40	7	16	21
2. Developmental Dis. of Women.....	3	6	1	2	10	1	4	3	1	3	1	14	2	2	1	6	4	2	1	3	2	3	5
3. Developmental Dis. of Old People.....	6	26	3	8	14	20	.....	.....	3	17	21	2	28	.....	17	4	36	13	2	21	5	.....	2	2	5	1
4. Diseases of Nutrition.....	1	.....	18	2	4	3	4	.....	1	1	5	.....	1	.....	2	.....	3	3	.....	6	4	.....	13	.....	6	.....
V.—1. Accident or Negligence.....	2	4	9	4	9	9	5	2	6	4	9	2	20	3	1	3	1	7	3	4	9	3	2	9	4	8	4
2. Battle.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3. Homicide.....	.....	.....	2	1	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
4. Suicide.....	3	1	.....	1	1	2	.....	.....	.....	2	4	.....	5	.....	.....	1	1	2	.....	3	1	.....	1	.....	1	.....
5. Execution.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6. Violent Deaths.....	1	13	2	1	7	5	1	4	2	3	1	12	7	5	1	4	3	5	34	2	3	18	1
CLASS I.—ZYMOTIC.....	24	32	43	24	58	59	27	4	61	65	52	8	162	10	3	43	9	56	24	19	63	42	82	13	24	30	6
I.—ORDER I. Miasmatic.....	24	32	43	24	54	58	27	4	60	65	52	8	161	10	3	42	9	55	24	19	63	42	82	13	24	30	6
1. Small-pox.....	1
2. Measles.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....	.....	.....	2
3. Scarletina.....	1	3	9	2	1	1	.....	.....	1	1	.....	9	2	.....	.....	.....	.....	3	.....	5	.....	5	3	.....	1	1
4. Diphtheria.....	2	2	5	7	19	23	12	.....	51	21	14	42	.....	.....	22	4	2	8	15	31	8	.....	24	3	4	6
5. Quinsy.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....
6. Croup.....	3	3	8	4	1	3	1	2	7	5	11	1	1	1	1	5	16	1	6

III.—ORDER 6. Generative Organs.....															
{ Ovarian Disease.....															
1. { Ovarian Tumor.....								1							
2. Disease of Uterus.....								1							
3. Hydrocele.....															
III.—ORDER 7. Organs of Locomotion.....															
1. Arthritis.....															
2. Joint Diseases.....								1							
III.—ORDER 8. Integumentary System.....															
1. Phlegmon.....								1							
2. Ulcers.....								1							
3. Skin Disease.....								1							
CLASS IV.—DEVELOPMENTAL DISEASES....															
IV.—ORDER 1. Dev. Dis. of Children.....															
1. Still-born.....								9							
2. { Infantile.....								6							
{ Premature Birth.....								2							
3. Cyanosis.....															
4. Spina Bifida.....															
5. Other Malformations.....								2							
6. Teething.....								1							
7. Injury at Birth.....								1							
IV.—ORDER 2. Dev. Dis. of Women.....								3							
1. { Dysmenorrhea.....								6							
{ Turn of Life.....								10							

TABLE 77.—CONTINUED.—*Causes of Death, Classified.*

Causes of Death,—1885.	Counties, 1885.																												
	Gallot.	Hilldale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Meosta.	Menominee.	Midland.	
1. Child-birth.....	3	5	1	2	7	1	4		3	1	2	1	13		2	2	1	6	4			2	1			3	2	5	2
2. Abortion.....					3						1		1																
3. Uterine Hemorrhage.....																													
IV.—ORDER 3. Dev. Dis. of Old People.....																													
1.—Old Age.....	6	26	3	8	14	20			3	17	21	2	28		17	4	36	13	2	21	5		2	2	5	1	4		
IV.—ORDER 4. Diseases of Nutrition.....																													
1.—Atrophy and Debility.....	1		18	2	4	3	4		1	1	5		1		2		3	3		6	4		13						
CLASS V. VIOLENT DEATHS.....	6	5	24	8	12	18	10	3	10	8	16	3	38	10	1	9	3	13	3	4	15	9	2	44	6	12	23	1	
V.—ORDER 1. Accident or Negligence.....	2	4	9	4	9	9	5	2	6	4	9	2	20	3	1	3	1	7	3	4	9	3	2	2	9	4	8	4	
1. Fractures and Contusions.....	1				3	3	1			1	3		9		1	1	1	1	1	1	1				1	3			
2. Wounds.....							1				1		1						2										
3. Burns and Scalds.....			5	1	1	2	1						6						2	1									
4. Poison.....	1			1	1			1	2		3						1	1		1	1								
5. Drowning.....	1	2			4	4	1		2	2	1	1	2	1	1	1	1	1	2		2	1	2	5	1	2	1		
6. Suffocation.....	1									1	1							1		2			2						
7. Otherwise.....	1	1	2	2			1	1	2			1	2	2	1		3		2	3			2	2	2	3	2		
V.—ORDER 2. In Battle.....																													
V.—ORDER 3. Homicide.....																													
1. Murder.....			2	1	1								1																

CAUSES OF DEATH, CLASSIFIED.

[illegible]

TABLE 77.—CONTINUED.—*Causes of Death, Classified.*

Causes of Death,—1885.	Counties, 1885.																
	Missaukee.	Monroe.	Montcalm.	Montmorency.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Oscoda.	Oscola.	Oscoda.	Otago.	Ottawa.	Presque Isle.	Roscommon.
All Causes.....	39 281 208	37 258 194	2 23 14	10 204	322 101 310 134	26 18 92 7	24 310 35	3 755 366	11 155 404	199 245 350 335	3,522 3,361 161 14	Wayne.	Washenaw.	Van Buren.	Tuscola.	St. Joseph.	St. Clair.
Specified Causes.....																	
Causes not Specified.....																	
CLASSES.																	
I.—Zymotic Diseases.....	4 38 54	2 80 28	42 47 6	2 3 6	1 3 71 3	141 58	3 84 72	28 57 50	47 1,015 10								
II.—Constitutional Diseases.....	5 52 37	1 49 16	53 21 2	3 6 1	6 55 2	112 43	20 76 46	39 60 50	568 12								
III.—Local Diseases.....	6 101 59	1 90 37	127 31 5	9 30 1	4 88 6	228 75	2 63 132	77 88 72	130 1,063 25								
IV.—Developmental Diseases.....	18 59 26	5 56 12	66 21 1	3 23 3	5 55 10	1 158 61	86 37 41	34 64 578	15								
V.—Violent Deaths.....	3 8 17	1 18 4	9 7 11	2 3 1	2 20 4	49 9 1	1 1	4 3									
Unclassified.....	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1									
ORDERS.																	
I.—1. Miasmatic Diseases.....	4 38 53	2 80 28	42 47 6	19 1 3	70 3	14 58	2 34 72	28 57 49	46 965 10								
2. Enthetic Diseases.....		1			1				1 1 9								
3. Dietic Diseases.....																	
4. Parasitic Diseases.....																	
II.—1. Diathetic Diseases.....	2 21 12	13 4 14	3 1	2 2 14													
2. Tubercular Diseases.....	3 31 25	1 36 12	39 18 1	3 4 1	4 41 2	86 33	14 49 29	27 42 43	8								

III.—1. Diseases of Nervous System.....	1	35	20	1	34	17	46	11	1	3	11	...	35	2	...	77	27	...	14	37	29	23	22	35	480		
2. Diseases of Organs of Circulation.....	2	10	9	...	10	8	27	3	1	1	2	...	10	...	...	41	13	...	18	18	14	19	9	30	148	3
3. Diseases of Respiratory Organs.....	2	30	16	...	25	9	17	7	3	1	6	...	1	23	2	66	13	...	12	35	15	18	17	28	238	8	
4. Diseases of Digestive Organs.....	1	16	10	...	14	2	17	3	...	2	3	...	3	11	2	27	13	2	8	21	11	17	13	21	118	5	
5. Diseases of Urinary Organs.....	...	8	3	...	5	1	17	7	...	1	7	1	...	8	...	9	7	...	6	16	5	8	9	7	47	...	
6. Diseases of Generative Organs.....	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	2	1	...	...	4	...	...
7. Diseases of Organs of Locomotion.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8. Diseases of Integumentary System.....	...	2	1	...	2	...	3	...	...	...	1	...	1	...	...	8	1	...	3	4	3	1	2	2	27	...
IV.—1. Developmental Dis. of Children.....	15	32	17	2	31	8	19	12	...	2	16	3	4	23	7	90	43	...	5	41	14	26	18	29	365	11	
2. Developmental Dis. of Women.....	2	2	5	2	11	1	5	2	...	...	5	...	1	11	1	8	4	...	1	3	2	9	3	2	35	2
3. Developmental Dis. of Old People.....	1	19	4	...	8	3	25	7	1	1	2	13	2	1	40	12	...	12	34	21	4	6	27	108	1
4. Diseases of Nutrition.....	...	6	...	1	6	...	17	...	...	...	...	...	...	8	...	20	2	...	2	8	...	2	7	6	70	1
V.—1. Accident or Negligence.....	2	6	6	1	12	3	4	6	10	2	1	...	...	12	3	37	2	2	6	7	5	3	9	7	87	...
2. Battle.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3. Homicide.....	...	1	...	1	...	...	...	...	...	...	...	...	1	...	...	1	...	...	1	...	...	1	...	8	...	
4. Suicide.....	...	1	...	1	...	...	3	1	...	...	...	...	...	...	...	2	1	...	3	...	1	...	2	1	17	...
5. Execution.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6. Violent Deaths.....	1	2	9	...	4	1	2	...	1	...	2	...	1	8	1	9	6	2	3	6	1	5	4	10	22	1	
CLASS I.—ZYMOTIC.....	4	38	54	2	80	23	42	47	6	...	50	1	3	71	3	141	58	3	34	72	28	57	50	47	1,015	10	
I.—ORDER 1.—Miasmatic.....	4	38	53	2	80	23	42	47	6	...	19	1	3	70	3	141	58	2	34	72	28	57	49	46	995	10	
1. Small-pox.....	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...
2. Measles.....	...	...	...	...	...	...	...	1	...	...	...	...	2	...	...	2	1	...	1	...	1	...	1	...	15	...
3. Scarletina.....	...	2	...	...	3	1	2	1	...	...	...	...	2	1	...	11	6	...	1	8	4	2	3	...	102	3
4. Diphtheria.....	...	9	28	...	16	3	9	23	1	...	5	...	...	8	...	15	25	...	7	17	1	23	21	10	374	1
5. Quinsy.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
6. Croup.....	...	8	2	...	6	8	1	4	1	...	...	...	1	14	...	29	6	...	1	7	...	3	...	3	96	...

[illegible]

III.—ORDER 6. Generative Organs.												
1. { Ovarian Disease.												
1. { Ovarian Tumor												
2. Disease of Uterus.												
3. Hydrocele.												
III.—ORDER 7. Organs of Locomotion.												
1. Arthritis.												
2. Joint Diseases.												
III.—ORDER 8. Integumentary System.												
1. Phlegmon.												
2. Ulcers.												
3. Skin Diseases.												
CLASS IV.—DEVELOPMENTAL DISEASES.												
IV.—ORDER 1. Dev. Dis. of Children.												
1. Still-born.												
2. { Infantile.												
2. { Premature Birth.												
3. Cyanosis.												
4. Spina Bifida.												
5. Other Malformations.												
6. Teething.												
7. Injury at Birth.												
IV.—ORDER 2. Dev. Dis. of Women.												
1. { Dysmenorrhea.												
1. { Turn of Life.												

CAUSES OF DEATH, CLASSIFIED.

177

V.-ORDER 4. Suicide.....	1	1	3	1	1	2	1	3	1	2	1	17														
1. Wounds.....	1	1	1	1	1	1	1	1	1	1	1	1														
2. Poison.....	1	1	1	1	1	1	1	1	1	1	1	1														
3. Drowning.....	1	1	1	1	1	1	1	1	1	1	1	1														
4. Hanging.....	1	1	1	1	1	1	1	1	1	1	1	1														
5. Otherwise and not Specified.....	1	1	1	1	1	1	1	1	1	1	1	1														
V.-ORDER 5. Execution.....	1	1	1	1	1	1	1	1	1	1	1	1														
1. Hanging.....	1	1	1	1	1	1	1	1	1	1	1	1														
V.-ORDER 6. Violent Deaths not included above.....	1	2	0	4	1	2	1	1	8	1	9	6	2	3	6	1	5	4	10	22	1					
UNCLASSIFIED.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	3	3					
1. Head disease.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
2. Hemorrhage.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
3. Inflammation.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
4. Otherwise.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Causes not specified.....	2	23	14	28	4	12	7	1	1	9	1	4	21	10	2	66	19	2	5	20	4	12	18	13	161	14

DEATHS FROM ALL CAUSES.

[illegible]

Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1
-------	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	---

CAUSES OF DEATH, SPECIFIED.

185

Females.....	1	1													5	Catarrh.....	0			2			1
Females.....																Cellulitis							
Males.....																Chest Disease.....							
Females.....																" ".....							
Total.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	Chicken-pox.....	4						
Males.....																" ".....	8						
Females.....	1															" ".....	1						
Females..	12	9	40	24	20	12	18	16	21	16	13	16	217	222	221	Childbirth.....	15	45	61	37	30	21	4
Total.....	5	4	2	2	7	5	1	3	1	2			38	44	45	Chills, Congestive.....	9	3	2	1	4	3	3
Males.....	5	3	1	1	2	1	2						17	24	21	" ".....	7	2	2		3	1	
Females....	1	1	1	5	4	1	3	1	2	1	1		21	20	24	" ".....	2	1	1	1	2	3	1
Total.....													2	2	2	Choking.....	2						
Males.....													1	1	1	" ".....	1						
Females.....													1	2	2	" ".....	1						
Total.....	4	11	4	12	7	17	86	103	89	48	13	6	390	781	465	Cholera Infantum.....	351	8					1
Males.....	3	6	3	5	3	11	44	47	34	35	5	3	192	435	270	" ".....	193	5					1
Females....	1	5	1	7	4	6	22	56	35	13	8	3	161	344	195	" ".....	158	3					
Unknown.													2			" ".....							
Total.....	1	1	1	2	6	13	6	4	1				42	50	24	Cholera Morbus.....	20	2	1	2	1	2	3
Males.....	1	1	1	1	2	9	5	3	2				24	26	15	" ".....	11		2		1	2	2
Females...				1	2	4	4	1	3	2	1		18	24	8	" ".....	9	2	1				1
Unknown													1			" ".....							
Males.....													2	6	10	Cholera							
Females.....													1	7	7	" ".....							
Total.....	1	1	1	1	1								6	4	6	Chorea.....	1	2	1				1
Males.....													1	2	3	" ".....							
Females.....	1	1	1	1									5	3	3	" ".....	1	2	1				1
Males.....													1	5	3	" ".....							
Total.....													1			Cirrhosis							

CAUSES OF DEATH, SPECIFIED.

[illegible]

CAUSES OF DEATH, SPECIFIED.

[illegible]

CAUSES OF DEATH, SPECIFIED.

[illegible]

CAUSES OF DEATH, SPECIFIED.

[illegible]

TABLE 78.—CONTINUED.—Specified Causes of Death.

Sex.	Months, 1885.												Years.						Causes of Death.	Ages in Periods of Years,—1885.																		
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	1885.	1884.	1883.	1882.	1881.	1880.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
Total.....	4	5	4	1	3	1	3	1	3	2	4	1	31	22	24	37	21	20	Hemorrhage of Lungs.....	5	5	5	5	2	2	4	1	2	4	1	4	4	1	1	4	2	1	
Males.....	4	4	2	1	3	1	2	1	2	1	3	1	24	16	14	21	14	14	"	4	4	4	1	1	4	1	2	4	1	2	4	1	2	2	1	2	2	
Females.....	1	2	1	1	1	1	1	1	1	1	1	1	7	6	10	16	7	6	"	1	1	1	1	1	1	1	1	1	1	1	2	2	1	2	1	2		
Males.....													1	1	1	1	1	1	Hemorrhage of Nose.....																			
Females.....													1	1	1	1	1	1	"																			
Females.....					1								1	1	1	1	1	1	"																			
Females.....																		1	Hemorrhage, Ovarian.....																			
Males.....														5	2	4	3	3	Hemorrhage of Stomach.....																			
Females.....									1			1	1	1	1	1	2	2	"																			
Males.....													1	1	1	1	1	1	Hemorrhage, Umbilical.....																			
Females.....														1	2				"																			
Females.....	1				1		1		1	1	1	1	4	1	1	2	3	3	Hemorrhage, Uterine.....				2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Total.....		1	1	1	1	1	1	1	2	1	1	3	12	15	10	15	12	12	Hemorrhage.....	3	3	1	1	2	1	1	1	1	1	3	1	3	1	3	1	1	1	
Males.....					1		1		1				3	7	9	4	9	6	"	1	1																	
Females.....		1			1		1	1	1	1	1	3	9	8	5	6	6	6	"	2	1	1	2	1	1	1	1	1	1	1	2	2	1	2	1	1	1	
Unknown.....															1				"																			
Total.....	2	3	3	1	1	1	2	1	2	5	4	25	23	23	30	26	23	13	Hernia.....	2	2	1	1	1	1	1	1	1	1	1	1	4	4	3	2	1		
Males.....	2	2	1				1		1	4	2	12	16	19	13	14	11	11	"				1	1	1	1	1	1	1	1	1	2	3	3	2	1		
Females.....	2	1	1	1	1	1	1	1	1	1	2	13	7	11	13	9	2	2	"	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Males.....													1					1	Hiccoughs.....																			
Total.....					1	1	2	2	1			9	6		7	6	11	6	Hip Disease.....	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2		
Males.....					1	1	1	1				4	4		5	3	9	4	"	1																		

CAUSES OF DEATH, SPECIFIED.

[illegible]

Total.....	b.	4	5	4	4	5	1	1	2	3	1	3	38	144	288	150	256	125	Measles.....	32	2	2	1	1		
Males.....	4	2	2	1	2	2	1	1	1	2	1	1	19	65	113	82	120	58	"	18	1					
Females...	1	2	3	3	3	3	1	1	1	1	2	2	19	79	144	68	136	67	"	14	1	2	1	1		
Unknown.....															1				"							
Males.....															2	3		2	Meningitis, Cerebral.....							
Females...																1	2		"							
Total.....							2	1	1	1	1	1	6	13	17	24	41	5	Meningitis, Cerebro-spinal	2	3		1			
Males.....								1		1			2	6	11	14	28	2	"	1	1					
Females...							2		1		1		4	7	6	10	13	3	"	1	2		1			
Total.....	8	6	5	4	10	3	4	2	7	3	2	6	60	101	83	84	123	58	Meningitis, Spinal.....	39	6	6	4	1	1	1
Males.....	6	5	2	2	2	2			6	3	3	3	31	61	43	42	76	38	"	19	5	4	1		1	
Females...	2	1	3	2	8	1	4	2	1	2	3	2	29	40	40	42	47	20	"	20	1	2	3	1	1	
Total.....											5	5	5	5	9	3	1	Meningitis, Tubercular.....	5							
Males.....											1	1	2	5	7	2		"		1						
Females...											3	3	3		2	1	1	"	3							
Unknown.....											1	1						"		1						
Total.....	4	5	4	3	2	4	2	2	2	3	3	3	31	16	20	16	21	22	Meningitis.....	23	2	1	1	2	1	1
Males.....	2	1	1	3	1	2	1	2	1	2	2	2	17	11	9	7	10	12	"	12	1		1	1	1	
Females...	2	4	3		1	2	1		1	1	1	1	14	5	10	9	11	10	"	11	1	1		1	1	
Unknown.....															1			"								
Females...													1						Menses.....				1			
Females...														2	1	1	2		Milk Leg (Phleg. Dolens).....							
Females...																		1	Mistake in Medicine.....							
Females...															2		1		Mortification.....							
Total.....	1		2	1	1	1	1	1	1	1	1	1	9	7	5	5	7	2	Mouth Disease.....	9						
Males.....				1	1								3	3	2	2	4		"	3						
Females...	1		2										6	4	3	3	3	2	"	6						

CAUSES OF DEATH, SPECIFIED.

[illegible]

[illegible]

UNUSUAL CAUSES OF DEATH.

There is no material difference, in 1885, in the number of deaths returned under the general head of "Casualties," as compared with the returns for 1883 and 1884. Accidental shooting claims 9 fewer victims than in 1884. Horses, by kicking, runaways and wagon accidents, managed to dispose of 29 human lives this year, as against 37 in 1884. Bulls are also accountable for 4 deaths this year. Returned as simple "accidents," without specifying the cause, there were 122 this year as against 123 in 1884.

TABLE 79.—Deaths in Michigan in 1885, Compiled as Casualty.

Casualty,—Causes as Returned.	No.	Casualty,—Causes as Returned.	No.
Total number tabulated as Casualty in table	297	Fall from a stump machine.....	1
Accidental, unclassified	122	Fall from wagon.....	8
Accident from burner	4	Falling out of bed.....	1
Accidentally poisoned	1	Hurt by horses.....	8
Accidental shooting.....	15	Inhaling gas.....	1
Broken neck.....	1	Killed by bulls	4
Bursting of cannon.....	1	Killed by an elevator.....	1
Bursting of emery wheel	1	Killed by falling brick.....	1
Caught in belt.....	1	Killed by fall of burning dam.....	1
Choking	3	Killed by falling rocks.....	5
Crushed.....	1	Killed by logs.....	11
Drowned in cistern.....	1	Killed in mills.....	8
Eating wheat.....	1	Killed by reaper.....	1
Explosion of powder.....	2	Killed in mines.....	26
Falling, unspecified.....	25	Killed in wells.....	3
Fall from chair.....	1	Killed in woods.....	8
Falling down stairs.....	1	Perished in snow-storm.....	1
Falling off hay-rack	1	Runaway teams.....	6
Falling of a leach	1	Run over by wagons.....	7
Falling on pitchfork	1	Scalded on head.....	1
Fall from building.....	5	Stepping on a nail.....	1
Fall from a straw-stack	1	Swallowing glass.....	1
		Swallowing teeth.....	2

STATISTICS CONCERNING SUICIDE.

The following table shows a large but not uniform growth in the number of suicides, which have increased at a greater ratio than has the population. The increase of population from 1874 to 1884 was about 39 per cent, while the increase in the number of suicides was over 96 per cent; but the number for 1884 was unusually large, being 14.28 per cent greater than in 1883 or 1885. The increase for 1885 over 1875 was just 75 per cent. In Massachusetts the rate of increase for the same period was nearly 11 per cent, which was not equal to the rate of increase of population, about 17 per cent, for the same period.

A fact worthy of note is that by the returns suicide, in Michigan, appears to be confined almost exclusively to the white population, the only exception being the case of a Mulatto in 1878.

Of the 817 cases returned in twelve years, 615 were males, 201 females and one unknown ; 558 were or had been married, 222 single and 37 whose conjugal relations were not given. Michigan was the birthplace of 191 ; 265 were born in other states, New York contributing the largest quota, 149, followed by Ohio with 44 ; 298 were of foreign birth, over half of whom, 151, were from Germany, 47 from Canada, 39 from England and 25 from Ireland ; the nativity of 63 was not given.

Of the causes of death, as made known by the returns, poison ranks first as usual, followed in order by hanging, shooting, drowning and cutting throat, while in over one-half of the cases the manner of death was not returned.

Based upon the population as given in the Census of 1884, Michigan had one suicide in 1885 to every 20,370 inhabitants ; this does not differ materially from the ratio for the entire United States by the Census of 1880, when there was reported one suicide to every 19,974 inhabitants.

TABLE 80.—*Certain facts Concerning Persons Returned as having Died by Suicide in Michigan during the Years 1874-1885.*

Year.	Number.	Month of Death.												Sex.			Color.	Condition.				
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Total.	Males.		Females.	Married.	Single.	Widowed.	Unknown.
Total.....	117	43	38	56	69	73	89	67	81	68	69	85	76	3	817	615	201	817	494	222	64	37
1874.....	53	7	3	4	1	4	5	5	4	3	5	6	6	---	53	31	22	53	28	17	4	4
1875.....	52	3	4	3	4	8	4	4	4	5	3	6	4	---	52	42	10	52	34	10	3	5
1876.....	54	3	1	3	7	7	8	2	4	5	6	5	3	---	54	43	11	54	35	12	3	4
1877.....	66	2	5	7	4	7	5	6	7	4	2	7	10	---	66	46	20	66	38	23	2	3
1878.....	63	5	2	5	5	5	9	5	7	5	6	5	4	---	63	40	23	63	41	16	4	2
1879.....	59	3	2	4	7	3	8	5	7	5	4	4	7	---	59	46	13	59	35	19	3	2
1880.....	65	4	3	6	8	9	6	3	4	7	2	6	6	1	65	50	15	65	38	20	4	3
1881.....	57	1	5	3	3	4	4	7	9	7	4	6	4	---	57	42	15	57	34	11	9	3
1882.....	62	2	3	4	6	8	7	2	7	5	7	4	6	1	62	44	18	62	32	24	3	3
1883.....	91	5	1	7	9	5	8	11	9	4	6	16	10	---	91	69	22	91	53	23	12	3
1884.....	104	4	5	7	8	6	16	8	8	14	10	10	8	---	104	84	20	104	71	28	4	1
1885.....	91	4	4	3	7	7	9	9	11	4	14	10	8	1	91	73	12	91	55	19	13	4

a 1 Mulatto.

b 1 sex unknown.

CAUSES OF DEATH,—SUICIDES.

217

TABLE 80.—CONTINUED.—*Suicidal Deaths.*

Occupations.	No.	Occupations.	No.	Occupations.	No.
Agents.....	6	Harness-makers.....	1	Police-men.....	1
Architects.....	1	Hotel-keepers.....	4	Printers.....	4
Bakers.....	2	House-keepers.....	80	Prostitutes.....	6
Bankers.....	2	Housewives.....	10	Sailors.....	4
Barbers.....	2	Insurance Agents.....	2	Saloon-keepers.....	12
Blacksmiths.....	1	Laborers.....	105	Seamstresses.....	1
Book-keepers.....	10	Lawyers.....	5	Servants.....	25
Brewers.....	4	Lumbermen.....	4	Ship carpenters.....	1
Brick-makers.....	2	Machinists.....	3	Shoemakers.....	8
Business men.....	3	Masons.....	7	Soldiers.....	2
Butchers.....	5	Mechanics.....	11	Stave-makers.....	1
Cabinet-makers.....	2	Merchants.....	14	Students.....	5
Carpenters.....	18	Millers.....	2	Tailors.....	5
Cigar-makers.....	3	Milliners.....	1	Tanners.....	3
Clerks.....	15	Miners.....	3	Teachers.....	3
Conductors.....	1	Ministers.....	1	Teamsters.....	3
Coopers.....	3	Miscellaneous.....	8	Tinners.....	1
Cutlers.....	1	Musicians.....	3	Unemployed.....	32
Draymen.....	5	Painters.....	3	Unknown.....	89
Druggists.....	2	Peddlers.....	2	Upholsterers.....	1
Engineers.....	5	Physicians.....	6	Weavers.....	3
Farmers.....	239				
Total.....					817
Nativity.	No.	Nativity.	No.	Nativity.	No.
Austria.....	1	Kentucky.....	1	Poland.....	3
Canada.....	47	Maine.....	3	Prussia.....	4
Connecticut.....	6	Massachusetts.....	3	Rhode Island.....	1
Denmark.....	1	Michigan.....	191	Scotland.....	11
England.....	39	Minnesota.....	1	Sweden.....	4
France.....	2	New Hampshire.....	3	Switzerland.....	2
Germany.....	151	New Jersey.....	6	Texas.....	1
Holland.....	3	New York.....	149	Unknown.....	63
Illinois.....	2	Norway.....	1	Vermont.....	12
Indiana.....	6	Nova Scotia.....	1	Virginia.....	1
Ireland.....	25	Ohio.....	44	Wisconsin.....	7
Italy.....	1	Pennsylvania.....	19	Zealand.....	2
Total.....					817

TABLE 80.—CONTINUED.—*Suicidal Deaths.*

Means Used.	No.	Means Used.	No.	Means Used.	No.
Cutting throat.....	19	Poison.....	139	Shooting.....	78
Drowning.....	43	Run over by cars.....	1	Starving.....	1
Hanging.....	119	Severing artery.....	2	Unknown.....	415
Total.....					817

PRINCIPAL CAUSES OF DEATH.

Of the fifteen leading causes of death, representing over one-half of the mortality in 1885, consumption continues to stand at the head, with over one-ninth of the total deaths to its credit. Diphtheria takes second place, which it usually holds, although in 1881 it stood at the head.

Among the interesting changes that may be noted are cholera infantum dropping from fifth position in 1884 to eleventh in 1885. Scarlet fever, which stood sixth in 1883, fell to fourteenth in 1884, and has fallen out of this list in 1885. Diarrhea and croup, which were eleventh and fifteenth last year, have also fallen out this year, the three vacant places being filled by dropsy, casualty and inflammation of the brain. Cancer has risen from twelfth in 1884 and eleventh in 1883 to ninth in 1885. As a matter of comparison we give the twelve most prominent causes of deaths in Massachusetts in 1885: Consumption, pneumonia, heart disease, apoplexy and paralysis, old age, still-born, cholera infantum, inflammation of brain, bronchitis, cancer, diphtheria and typhoid fever. These twelve causes represent over 64 per cent of the total deaths in that State in 1885.

There appears to be no material change in the relation or per cent of deaths from the fifteen specified causes in Table 81 to deaths from all causes from year to year. The total in 1885 is 57.44 per cent, to 57.66 in 1884, 56.62 in 1883, 57.13 in 1882, 57.43 in 1881, and 58.02 in 1880.

TABLE 81.—*Mortality in Michigan from Fifteen Principal Causes, as returned for the year 1885.*

Order.	Specified Causes and Conditions,—1885.	Number of Deaths.				Per Cent from each Cause to Deaths from all Causes.		
		Total.	Males.	Females.	Unknown.	Total.	Males.	Females.
1	Consumption	1,964	935	1,028	1	11.80	10.36	13.58
2	Diphtheria.....	1,054	503	551	.....	6.33	5.57	7.28
3	Still-born.....	1,008	606	372	30	6.06	6.71	4.91
4	Old Age.....	773	404	366	3	4.64	4.48	4.84
5	Pneumonia.....	733	420	312	1	4.40	4.65	4.12
6	Heart Disease.....	665	388	277	.....	4.00	4.30	3.66
7	Apoplexy and Paralysis.....	516	270	244	2	3.10	2.99	3.22
8	Convulsions.....	452	266	186	.....	2.72	2.95	2.46
9	Cancer.....	403	183	220	.....	2.42	2.03	2.91
10	Fever, Typhoid.....	387	210	176	1	2.32	2.33	2.32
11	Cholera Infantum.....	380	199	161	.....	2.16	2.20	2.13
12	Dropsy.....	330	147	183	.....	1.98	1.63	2.42
13	Bowels, Inflammation of....	324	169	155	.....	1.95	1.87	2.05
14	Casualty.....	297	255	42	.....	1.78	2.33	.55
15	Brain, Inflammation of.....	296	157	139	.....	1.78	1.74	1.84
Total.....		9,562	5,112	4,412	38	57.44	56.64	58.29
All causes.....		16,646	9,025	7,569	52	100.00	100.00	100.00

MORTALITY FROM TEN PROMINENT CAUSES IN 1885.

The following tables give the number and per cent of deaths in 1885 from ten prominent causes by months and periods of age. The diseases which appear to show most prominently the effects of the seasons are diarrhea, dysentery, croup, diphtheria, and measles. The first two show an almost regular increase as the hot months come on, decreasing again as winter approaches; while the contrary appears to prevail to a large extent in croup, diphtheria and measles.

As usual diphtheria ranks highest of these ten causes, with but eleven fewer deaths than in 1884, while cancer comes second with 42 more than in 1884 and 20 more than in 1883. Measles are unusually low this year, showing but 38 as against 144 last year and 258 the year previous. Dysentery comes next with 55 fewer than in 1884. The other most noticeable changes are a falling off of 148 deaths from diarrhea, 81 from scarlet fever and 127 from typhoid fever as compared with the returns for 1884.

As regards age it will be noticed that in all but cancer and typhoid fever there is a large excess of deaths for the period under 5 years, diphtheria being the only cause that carries a large proportion of deaths into the second and third periods, although cephalitis, croup and scarlet fever show quite a liberal allowance of deaths in the second period.

TABLE 82.—Deaths from Ten Specified Causes returned for the Year 1885, Exhibiting the Number of each Sex, Total Number in each Month and at different Periods of Age.

Sex, Months and Ages.		Causes of Death, 1885.									
		Cancer.	Cepha- litis.	Croup. ^a	Diar- rhea. ^b	Diph- theria.	Dysen- tery. ^c	Measles.	Scarlet Fever.	Typhoid Fever.	Whoop- ing Cough.
Sex.	Total.....	408	296	337	261	1,054	105	38	245	387	128
	Males.....	183	157	185	166	503	52	19	136	210	57
	Females.....	220	139	152	95	551	52	19	109	176	81
	Unknown.....						1			1	
Months.	January.....	23	22	38	6	96	1	5	26	34	3
	February.....	27	16	37	13	82		4	21	16	12
	March.....	23	23	30	14	64	1	5	16	26	8
	April.....	25	22	32	8	77	4	4	18	20	10
	May.....	29	27	14	9	55	2	4	15	25	8
	June.....	30	27	18	23	53	4	5	14	10	10
	July.....	37	25	12	57	78	12	1	18	20	18
	August.....	39	31	14	59	70	30	1	30	36	13
	September.....	41	27	25	34	103	21	2	19	75	81
	October.....	43	33	35	16	134	13	3	15	51	13
	November.....	45	17	36	7	115	8	1	20	39	12
	December.....	40	26	46	15	126	8	3	33	34	12
	Unknown.....	1				1	1			1	1
	Av. Month d.....	34	25	28	22	88	9	3	20	32	11
Ages.	Under 5.....	12	188	290	228	456	71	32	158	37	136
	5 to 10.....	4	32	47	3	366	6	2	61	22	2
	10 to 15.....	1	15	7	1	149	2	2	15	36	
	15 to 20.....	1	13	1		41		1	5	47	
	20 to 25.....	1	7			11	1		2	45	
	25 to 30.....	10	8	1	2	6	3			40	
	30 to 35.....	7	9		1	4	1		1	30	
	35 to 40.....	17	1			2	1		1	25	
	40 to 45.....	29	3		1	1	1	1		18	
	45 to 50.....	43	5		1	2	1			22	
	50 to 55.....	42	4		7	2	2		1	14	
	55 to 60.....	53	3		6					6	
	60 to 65.....	45	3		1					10	
	65 to 70.....	46	1		3		6			6	
	70 to 75.....	36	2	1	3		5			7	
	75 to 80.....	20	1		2		1			6	
	80 and over.....	23					2			4	
	Unknown.....	8	1		2	14	2		1	12	

^a Includes 46 membranous croup.
^c Includes 1 chronic.

^b Includes 23 chronic.
^d Excluding unknown month.

TABLE 83.—*Per Cent of Deaths returned for the Year 1885, from each of Ten Specified Causes to Deaths from all Causes; and Per Cent of each Sex of Deaths in each Month and at different Periods of Life, to Total Deaths from each Specified Cause.*

Sex, Months, and Ages.		Causes of Death, 1885.—Per Cent of Total.									
		Cancer.	Cephalitis.	Croup.	Diar-rhea.	Diph-theria.	Dysen-tery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whoop-ing Cough.
Per Cent of all Causes		2.42	1.78	2.02	1.57	6.33	.63	.23	1.47	2.32	.83
Sex.	Males.....	45.41	53.04	54.90	63.60	47.72	49.52	50.00	55.51	54.26	41.30
	Females.....	54.59	46.96	45.10	36.40	52.28	49.52	50.00	44.49	45.48	58.70
	Unknown.....						.96			.26	
Months.	January.....	5.71	7.43	11.28	2.30	9.11	.95	13.16	10.61	8.79	2.17
	February.....	6.70	5.41	10.98	4.98	7.78		10.53	8.57	4.13	8.69
	March.....	5.71	7.77	8.90	5.36	6.07	.95	13.16	6.53	6.72	5.80
	April.....	6.20	7.43	9.50	3.06	7.31	3.81	10.53	7.35	5.17	7.25
	May.....	7.20	9.12	4.15	3.45	5.22	1.51	10.53	6.12	6.46	5.80
	June.....	7.44	9.12	5.34	8.81	5.03	3.81	13.16	5.71	2.58	7.25
	July.....	9.18	8.45	3.56	21.84	7.40	11.43	2.63	7.35	5.17	13.04
	August.....	9.68	10.47	4.15	22.61	6.64	28.57	2.63	12.25	9.30	9.42
	September.....	10.17	9.12	7.42	13.03	9.77	20.00	5.26	7.76	19.38	13.04
	October.....	10.67	11.15	10.39	6.13	12.71	12.38	7.89	6.12	13.18	9.42
	November.....	11.17	5.74	10.68	2.68	10.91	7.62	2.63	8.16	10.08	8.70
	December.....	9.92	8.79	13.65	5.75	11.96	7.62	7.89	13.47	8.78	8.70
	Unknown.....	.25				.09	.95			.26	.72
	Average months...	8.31	8.33	8.33	8.33	8.32	8.25	8.33	8.33	8.31	8.27
Ages.	Under 5.....	2.98	63.52	83.08	87.36	43.26	67.62	84.22	64.49	9.56	98.55
	5 to 10.....	.99	10.81	13.94	1.15	34.72	5.71	5.26	24.90	5.69	1.45
	10 to 15.....	.25	5.07	2.08	.38	14.14	1.91	5.26	6.12	9.30	
	15 to 20.....	.25	4.39	.30		3.89		2.63	2.04	12.14	
	20 to 25.....	.25	2.36			1.04	.95		.81	11.63	
	25 to 30.....	2.48	2.70	.30	.77	.57	2.86			10.34	
	30 to 35.....	1.74	3.04		.38	.38	.95		.41	7.75	
	35 to 40.....	4.22	.34			.19	.95		.41	6.46	
	40 to 45.....	7.20	1.01		.38	.10	.95	2.63		4.65	
	45 to 50.....	10.67	1.69		.38	.19	.95			5.69	
	50 to 55.....	10.42	1.35		2.68	.19	1.91		.41	3.62	
	55 to 60.....	13.15	1.01		2.30					1.55	
	60 to 65.....	11.17	1.01		.38					2.58	
	65 to 70.....	11.41	.34		1.15		5.71			1.55	
	70 to 75.....	8.93	.68	.30	1.15		4.76			1.81	
	75 to 80.....	4.96	.34		.77		.95			1.55	
	80 and over.....	6.95					1.91			1.03	
	Unknown.....	1.98	.34		.77	1.33	1.91		.41	3.10	

• Excluding deaths in unknown month.

Cancer.—In table 84 is given a recapitulation of all deaths from cancer, by part of the body affected, for 14 years, 1872–1885.

The aggregate number of deaths from this disease for the 14 years was 3,781, being an average of 270 per year. With the exception of two years, 1882 and 1884, there has been a constant increase of deaths from this cause since 1871; the returns this year give 42 more deaths than in 1884. The excess of female deaths this year is 37, being two above the average excess for the 14 years.

There is no great variation in the number of deaths by months in each half of the year, but there is quite an excess in the last half over the first, the deaths as reported giving 157 for the first six months of the year to 245 for the last six, or an excess of 88 in the last half. By months November returns the largest number and January and March the least.

About one-half of the cases are returned “unspecified” as to part of the body affected. Of those returned as known, cancer of the stomach is credited with nearly one-half of the deaths, while cancer of the breast is second, with about one-seventh.

TABLE 84.—Deaths from Cancer in Michigan returned for the Years 1872–1885, Indicating Part of Body Affected.

Part Affected.	Total.	Males.	Females.	Part Affected.	Total.	Males.	Females.
Aggregate, 14 years— 1872–1885. {	3,781	1,647	2,134	Cancer of Lungs.....	6	3	3
Cancer of Arm.....	6	3	3	Cancer of Mouth.....	65	45	20
Cancer of Bladder.....	6	5	1	Cancer of Neck.....	15	12	3
Cancer of Bowels.....	82	30	52	Cancer of Nose.....	2	2	—
Cancer of Breast.....	265	18	247	Cancer of Oesophagus....	3	1	2
Cancer of Eye.....	13	7	6	Cancer of Pancreas.....	3	2	1
Cancer of Face.....	115	83	32	Cancer of Rectum.....	14	9	5
Cancer of Foot.....	3	3	—	Cancer, Rose.....	8	4	4
Cancer in Groin.....	4	3	1	Cancer of Shoulder.....	2	2	—
Cancer of Hand.....	3	2	1	Cancer of Side.....	11	2	9
Cancer of Head.....	24	13	11	Cancer of Spine.....	3	1	2
Cancer, Internal.....	25	8	17	Cancer of Stomach.....	935	563	352
Cancer of Kidneys.....	4	4	—	Cancer of Throat.....	38	21	17
Cancer of Leg.....	16	11	5	Cancer of Tongue.....	15	9	6
Cancer of Liver.....	73	43	30	Cancer (unspecified).....	1,856	718	1,138
				Cancer, Uterus.....	166	—	166

METEOROLOGY AND ITS RELATION TO DEATHS.

It is held by all authorities on the subject that the mortality from many diseases is sensibly affected by climatic conditions. For purposes of study and comparison by those interested, the following tables have been prepared showing some of the most important meteorological conditions for the year 1885. These tables are the results of observations made at the office of the State Board of Health, State Agricultural College, and by the U. S. Signal Service.

From Table 85 it will be seen that the average temperature for 1885, 42.90, was very low, 3.54 degrees below the average, and only approached by that of 1883, when it was 43.51, and in 1875, which was 43.09. The lowest monthly average was in February, 8.94 degrees, being 15.68 degrees below the average of that month for ten years. July, the hottest month in the year, shows 1.72 degrees more heat than the ten year average.

The year 1885, then, was not only the coldest of the past ten years, but it had, also, with but three exceptions, the hottest weather. That is to say, the monthly average of the hottest month was only exceeded in the years 1878, 1879, and 1881.

TABLE 85.—TEMPERATURE.—Average, by Years and by Months, for the Years 1876 to 1885, inclusive, at the Agricultural College. (Results of Observations by Prof. R. C. Kedzie.)

Years.	Annual Average.	Average Temperature, Stated in Degrees, Fahrenheit, by Months.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1876.....	46.17	30.22	27.38	30.55	44.16	57.95	68.14	72.48	71.55	56.30	43.74	36.33	15.23
1877.....	47.42	18.07	32.31	24.51	46.16	58.25	65.93	71.43	68.46	61.28	50.83	35.24	36.57
1878.....	48.29	29.11	28.07	40.90	50.55	54.57	64.08	73.04	70.15	63.15	48.33	36.29	21.29
1879.....	46.88	19.19	20.40	33.19	44.84	58.76	66.02	74.03	70.00	56.21	57.28	38.22	27.46
1880.....	47.28	37.10	29.19	35.50	45.87	64.30	67.60	68.04	68.58	55.83	46.23	27.52	22.07
1881.....	48.73	16.98	21.58	30.28	45.59	65.24	64.31	73.43	72.69	69.69	52.51	38.20	34.31
1882.....	47.57	24.89	35.12	35.96	44.70	52.73	66.49	67.71	69.52	59.98	52.67	36.30	24.80
1883.....	43.51	14.39	19.76	24.89	43.48	52.78	65.87	68.94	64.90	56.43	46.17	38.08	26.39
1884.....	45.66	15.46	23.43	29.89	43.66	56.90	68.92	67.95	66.91	65.06	50.91	34.11	24.71
1885.....	42.90	15.34	8.94	21.26	43.59	55.76	64.69	72.70	63.62	58.94	44.95	37.22	27.75
Average for 10 years ^a ..	46.44	22.08	24.62	30.69	45.26	57.72	66.21	70.98	68.64	60.29	49.36	35.75	26.06

^a Average for 10 years ending with 1885.

TABLE 86.—PRESSURE OF THE ATMOSPHERE.—*Observations of Barometer reduced to freezing point, for each of the Years 1876 to 1885, inclusive, and the Average for Ten Years ending with 1885, at the Agricultural College, Lansing, Michigan. (Based upon Observations by Prof. R. C. Kedzie.)*

Years.	Annual Average.	Pressure of the Atmosphere, Stated in Inches of Mercurial Column, by Months.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1876.....	29.010	29.073	29.063	28.929	29.000	29.009	28.911	29.009	29.048	28.995	28.929	28.953	29.203
1877.....	29.066	29.057	29.124	28.981	28.974	29.056	29.020	29.062	29.046	29.121	29.077	29.099	29.180
1878.....	29.053	29.099	29.026	29.027	28.875	29.013	29.030	29.065	29.010	29.157	29.080	29.081	29.147
1879.....	29.060	29.130	29.107	29.102	29.050	29.116	29.073	29.057	29.100	29.152	29.160	29.027	29.032
1880.....	29.096	28.995	29.077	29.181	28.984	29.061	29.065	29.068	29.126	29.093	29.130	29.215	29.155
1881.....	29.087	29.077	29.152	28.899	29.064	29.116	29.018	29.093	29.117	29.077	29.181	29.120	29.134
1882.....	29.094	29.134	29.041	29.096	29.088	29.065	28.959	29.096	29.062	29.186	29.112	29.175	29.112
1883.....	29.107	29.129	29.252	29.059	29.042	29.007	28.998	29.072	29.154	29.162	29.158	29.128	29.124
1884.....	29.087	29.118	27.081	29.071	29.011	28.995	29.256	29.004	29.120	29.118	29.028	29.111	29.127
1885.....	29.066	29.144	29.006	29.093	29.097	28.988	29.105	29.052	29.061	29.115	29.056	29.013	29.062
Average..*	29.075	29.096	28.893	29.044	29.019	29.043	29.044	29.060	29.084	29.118	29.091	29.092	29.128

* Average for ten years ending with 1885.

Croup.—A trifle over two per cent of all deaths in 1885 were due to this disease, the total deaths from croup being 337, and of these 83.08 per cent, or 280, were under 5 years of age; 47 were in the period of 5 to 10, 7 in 10 to 15, and one each in 15 to 20, 25 to 30, and 70 to 75. The most fatal were the cold months, including March, April and October. December stands again the highest, although its proportion is decidedly below that of last year, being 13.65 to 16.98; while July is lowest with 3.56 per cent. In 1884, five months were above the average and seven below, while in 1885 the reverse is the case.

Certain meteorological conditions, which are considered to have an influence upon the mortality from croup, are given in table 87. It appears that there was but one exception, October, to the proposition that the air was *colder* than the average in months when the greatest number of deaths from croup occurred. The same month is also the only exception to the proposition that more than the average number of deaths from croup occurred in months in which there was less than the average quantity of vapor inhaled.

TABLE 87.—Deaths returned from Croup in Michigan, by Months, during the Year 1885, and some coincident Meteorological Conditions.

Months in Order by Number of Deaths from Croup, greatest first.		Deaths from Croup, 1885.		Temperature Degrees Fahr.		Humidity of Atmos- phere, etc., Monthly Averages.				Ozone.— Relative Maximum =10.		Average Velocity of Wind,—Miles per Hour,— by Registering Anemometer.	Average Pressure of Atmosphere, (Barometer Reduced to 32° Fahrenheit.)
		Number.	Per Cent of Total.	Average Daily Range by Register- ing Thermometers.	Average of Three Daily Observa- tions.	Relative Per Cent of Saturation.	Absolute—Grains of Vapor in a Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor In- haled by one person in 24 hours. ^b	Weight, in Troy Ounces, of Vapor Ex- haled from Air Passages in 24 hours in excess of vapor inhaled. ^c	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
Year, 1885.....		d 337	100.00	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
More than the Av. No. of Deaths.	December.....	46	13.65	13.19	27.59	82	1.72	1.08	10.60	2.92	3.50	11.6	29.148
	January.....	38	11.28	17.03	15.46	80	1.14	.71	9.97	2.88	3.49	11.8	29.211
	February.....	37	10.98	22.94	10.21	80	0.94	.59	11.09	3.05	3.65	9.0	29.130
	November.....	36	10.68	11.53	38.14	82	2.50	1.56	10.12	2.87	3.38	9.9	29.105
	October.....	35	10.39	16.81	45.78	79	3.17	1.98	9.70	3.03	3.43	8.2	29.161
	April.....	32	9.50	18.25	41.39	72	2.53	1.58	10.10	3.21	3.96	10.4	29.207
	March.....	30	8.90	22.22	19.51	77	1.25	.78	10.90	3.31	3.75	10.2	29.197
Average.....		28	8.33	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
Less than the Av. No. of Deaths.	September.....	25	7.42	20.42	59.14	75	4.56	2.85	8.83	2.72	3.14	8.8	29.209
	June.....	18	5.34	22.73	63.39	70	4.90	3.06	8.62	2.61	3.20	8.7	29.195
	May.....	14	4.15	19.72	53.32	69	3.62	2.26	9.42	2.96	3.68	9.0	29.105
	August.....	14	4.15	18.45	63.23	78	5.29	3.31	8.37	3.07	3.41	8.1	29.165
	July.....	12	3.56	22.09	71.13	71	6.12	3.83	7.85	2.47	3.00	7.6	29.150

^a Calculated from readings of Dry Bulb and Wet Bulb Thermometers.

^b Calculated for 18 respirations per minute of 20 cubic inches of air each.

^c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 Troy ounces of vapor exhaled daily. No correction made for expansion of air after being inhaled.

^d Includes 48 deaths from Membranous Croup.

^e Exceptions to the proposition that more than an average number of deaths from croup occurred in months when the Average Daily Temperature was less than the average, and vice versa.

^f Exceptions to the proposition that more than an average number of deaths from croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

Diphtheria.—There is comparatively little variation in the total number of deaths from diphtheria for the years 1883, 1884, and 1885, as will be seen from the exhibit given below; there is, however, a very large decrease from the number of deaths reported for the four years previous to 1883, the mortality being especially great in 1881. The excess of female deaths this year is 48, as against 62 last year, and 7 in

1883. While there is an actual decrease in the number of deaths from diphtheria as compared with last year, there is an increase in the proportion of deaths from this cause to deaths from all causes. The per cent is 6.33 to 5.90 in 1884, and 5.96 in 1883. The highest proportion was in 1881, when 10.72 per cent, or over one-tenth of all deaths, were from this disease. The fluctuations in the number of diphtheritic deaths for the past ten years were as follows :

1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
311	593	887	1,473	1,542	2,063	1,416	1,007	1,065	1,064

The annual average, as computed for the ten years 1876-1885, continues to increase, being 1,141 this year, to 1,056 in 1884, although there is no increase in the total deaths from diphtheria ; this is due to the dropping off of the years with comparatively few deaths, 1875 dropping out of the ten with its small number of 207 deaths from this cause. The seven years, 1879-1885, showing excessive mortality from diphtheria, give an average of 1,374.

Of the total deaths from diphtheria in 1885, 77.98 per cent were children under ten years of age.

The following tabular exhibit shows the deaths from diphtheria by the eleven geographical divisions of the State, with the per cent or relation of deaths from this disease to deaths from all causes. The two divisions having the largest per cent in 1884 were the southeastern with 10.36, and the northern central with 9.79. These two it will be noticed are again the highest, the former with 9.61 and the latter 14.25 per cent. That is, about one-seventh of the total deaths in the northern central division were caused by diphtheria.

State and Geographical Divisions.	Total Mortality from all Causes.	Deaths from Diphtheria.	Per Cent of Deaths from Diphtheria to Deaths from all Causes.
State	16,646	1,064	6.33
Upper Peninsular	1,027	61	5.94
Northwestern	475	13	2.74
Northern	348	14	4.02
Northeastern	329	15	4.56
Western	1,751	103	5.88
Northern Central	414	59	14.25
Eastern	2,536	129	5.09
Central	2,063	126	6.14
Southwestern	1,011	36	3.56
Southern Central	2,290	75	3.28
Southeastern	4,412	423	9.61

Table 88 shows the number of deaths from diphtheria in 1885 by months, with certain coincident meteorological conditions. It will be observed that there are five exceptions this year to the proposition that *more* than the average number of deaths from diphtheria occurred in months in which the temperature was *less* than the average, and *vice versa*.

TABLE 88.—Deaths returned from Diphtheria in Michigan, by Months, during the Year 1885, and some coincident Meteorological Conditions.

Months in Order by Number of Deaths from Diphtheria, greatest first.	Deaths from Diphtheria 1885.		Tempera- ture, Degrees Fahr.		Humidity of Atmosphere etc., Monthly Averages.				Ozone,— Relative Maximum = 10.		Average Velocity of Wind,—Miles per hour,— by Registering Anemometer.	Average Pressure of Atmosphere. (Barometer reduced to 32° Fahrenheit.)
	Number.	Per Cent of Total.	Average Daily Range by Register- ing Thermometers.	Average of three Daily Observations.	Relative Per Cent of Saturation.	Absolute Grains of Vapor in a Cubic foot of Air. ^a	Weight, in Troy Ounces, of Vapor inhaled by one person in 24 hours. ^a	Weight, in Troy Ounces, of Vapor exhaled from air passages in 24 hours in excess of Vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
Year, 1885.....	1,054	100.00	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
More than the Av. No. of Deaths.												
October.....	134	12.71	16.81	^b 45.78	79	3.17	^c 1.98	9.70	3.03	3.43	8.2	29.161
December.....	127	12.05	13.19	27.59	82	1.72	1.08	10.60	2.92	3.50	11.6	29.148
November.....	115	10.91	11.53	38.14	82	2.50	1.56	10.12	2.87	3.38	9.9	29.105
September.....	103	9.77	20.42	^b 59.14	75	4.56	^c 2.85	8.83	2.72	3.14	8.8	29.209
January.....	96	9.11	17.03	15.46	80	1.14	.71	9.97	2.88	3.49	11.8	29.211
Average.....	88	8.33	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
Less than the Average Number of Deaths.												
February.....	82	7.78	22.94	^b 10.21	80	0.94	^c .59	11.09	3.05	3.65	9.0	29.130
July.....	78	7.40	22.09	71.13	71	6.12	3.83	7.85	2.47	3.00	7.6	29.150
April.....	77	7.31	18.25	^b 41.39	72	2.53	^c 1.58	10.10	3.21	3.96	10.4	29.207
August.....	70	6.64	18.45	63.23	78	5.29	3.31	8.37	3.07	3.41	8.1	29.165
March.....	64	6.07	22.22	^b 19.51	77	1.25	^c .78	10.90	3.31	3.75	10.2	29.197
May.....	55	5.22	19.72	53.32	69	3.62	2.23	9.42	2.96	3.68	9.0	29.105
June.....	53	5.03	22.73	63.39	70	4.90	3.06	8.62	2.61	3.20	8.7	29.195

^a See foot-notes to Table 87, page 225.

^b Exceptions to the proposition that *more* than an average number of deaths from Diphtheria occurred in months when the Average Daily Temperature was *less* than the average, and *vice versa*.

^c Exceptions to the proposition that *more* than an average number of deaths from Diphtheria occurred in months when *less* than the average quantity of vapor was inhaled, and *vice versa*.

Typhoid Fever.—There is a decided falling off this year in the number of deaths from this disease, being 387 to 514 in 1884 and 439 in 1883, and 100 below the average of the last twelve years. The per cent to deaths from all causes is 2.32, with a considerable excess of males, there being 210 to 176 females and one unknown. The six months of the year beginning with February show deaths below the monthly average, the remaining six above. September leads with nearly one-fifth of the total deaths, while over one-half of the deaths occurred in the last four months of the year.

By periods of age the largest proportion to the number of inhabitants of the same age, by the Census of 1884, is in the period of 15 to 20; the proportion of inhabitants of that age to all inhabitants was about 10 per cent, while the proportion of deaths from typhoid fever for the same age was 12.14 per cent. Of the 387 deaths 282 were under 40 years of age, and 105, or about 27 per cent, were over 40; in 1884 only 18 per cent were above that age.

TABLE 89.—Deaths Returned in Michigan from Typhoid Fever, by Months, during the Year 1885, and some coincident Meteorological Conditions.

Months in Order by Number of Deaths from Typhoid Fever, greatest first.		Deaths from Typhoid Fever, 1885.		Temperature Degrees Fahr.		Humidity of Atmos- phere, etc., Monthly Averages.				Ozone,— Relative Maximum = 10.		Average Velocity of Wind,—Miles per Hour,—by Registering Anemometer.	Average Pressure of Atmosphere. (Barometer Re- duced to 32° Fahrenheit.)
		Number.	Per Cent of Total.	Average Daily Range, Registering Thermometer.	Average of Three Daily Observations.	Relative Per Cent of Saturation.	Absolute Grains of Vapor in a Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor In- haled by One Person in 24 Hours. ^a	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 Hours in Excess of Vapor Inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
Year, 1885		387	100.00	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
More than the Av. No. of Deaths.	September	75	19.38	20.42	59.14	75	4.56	2.85	8.83	2.72	3.14	8.8	29.209
	October	51	13.18	b 16.81	45.78	79	3.17	1.98	9.70	e 3.03	3.43	8.2	f 29.161
	November	39	10.08	b 11.53	c 38.14	82	d 2.50	1.56	10.12	2.87	3.38	9.9	f 29.105
	August	36	9.30	b 18.45	63.23	78	5.29	3.31	8.37	e 3.07	3.41	8.1	29.165
	January	34	8.78	b 17.03	c 15.46	80	d 1.14	.71	9.97	2.88	e 3.49	11.8	29.211
	December	34	8.79	b 13.19	e 27.59	82	d 1.72	1.08	10.60	2.92	e 3.50	11.6	f 29.148
Average		32	8.33	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
Less than the Av. No. of Deaths.	March	26	6.72	b 22.22	19.51	77	1.25	.78	10.90	3.31	3.75	10.2	f 29.197
	May	25	6.46	b 19.72	c 53.32	69	d 3.62	2.26	9.42	2.96	3.68	9.0	29.105
	April	20	5.17	18.25	41.39	72	2.53	1.58	10.10	3.21	3.96	10.4	f 29.207
	July	20	5.17	b 22.09	c 71.13	71	d 6.12	3.83	7.85	e 2.47	e 3.00	7.6	29.150
	February	16	4.13	b 22.94	10.21	80	.94	.50	11.09	3.05	3.65	9.0	29.130
	June	11	2.84	b 22.73	c 63.39	70	d 4.90	3.06	8.62	e 2.61	e 3.20	8.7	f 29.195

^a See foot-note to Table 87, page 225.

^b Exceptions to the proposition that the Average Daily Range of Temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^c Exceptions to the proposition that the Average Daily Temperature was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^d Exceptions to the proposition that the Absolute Humidity was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^e Exceptions to the proposition that the Ozone was *less* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

^f Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was *greater* than the average in months when *more* than the average number of deaths occurred, and *vice versa*.

The total deaths from the diarrheal diseases classed together in table 90 are 1,050, being 650 fewer than were returned for the same diseases in 1884, and 137 below the average for twelve years; also 937 below the year showing the greatest number of deaths, 1881. The greatest decrease is in diarrhea and cholera infantum, enteritis being the only cause that shows above the average.

TABLE 90.—*Deaths returned from Diarrheal Diseases in Michigan during the Years 1874-1885, and the Average for Twelve Years.*

Years.	Diarrhea.	Dysentery.	Cholera Infantum.	Cholera.	Enteritis.	Diarrheal Diseases.
1874.....	380	304	278	6	208	1,176
1875.....	283	162	289	2	218	954
1876.....	304	195	331	12	239	1,081
1877.....	290	218	370	15	226	1,119
1878.....	173	158	243	4	214	792
1879.....	226	135	300	6	237	904
1880.....	310	160	499	26	267	1,262
1881.....	501	270	857	17	342	1,987
1882.....	259	96	428	13	276	1,072
1883.....	267	114	465	3	294	1,143
1884.....	409	180	781	.....	350	1,700
1885.....	261	105	360	.....	324	1,050
Average.....	305	173	434	9	266	1,187

Diarrhea.—The low rate of mortality from this disease has been surpassed in three cases only in the past fourteen years, in 1878, 1879 and 1882, and probably not in the latter year if allowance is made for the difference in population. The rate per cent to all deaths in 1885 is 1.57 as against 2.27 in 1884.

No month shows a large excess over its neighbor, as was the case last year, when August had 129 to 71 in July; this year those two months show the highest, but are nearly equal. In 1884 August gave an average temperature of 66.10, and its per cent of deaths from diarrhea was 31.54; for 1885 the figures are 63.23 and 22.61. Taking July in the same way we find for 1884 the figures were 66.70 and 17.36; for 1885 both are higher, being 71.13 and 21.84. The highest monthly mortality recorded was 157 for the month of August, 1881. Comparing the meteorological conditions we find as follows, for August, average daily range of temperature, in 1881, 24.48 degrees; in 1885, 18.45; average temperature in 1881, 74.63 degrees, in 1885, 63.23; relative humidity in August, 1881, 62; in 1885, 78.

TABLE 91.—Deaths returned in Michigan from Diarrhea, by Months, during the Year 1885, and some coincident Meteorological Conditions.

Months in Order by Number of Deaths from Diarrhea, greatest first.		Deaths from Diarrhea, 1885.		Tempera- ture, Degrees Fahrenheit.		Humidity of Atmos- phere, etc., Monthly Averages.				Ozone.— Relative Maximum, = 10.		Average Velocity of Wind,—Miles per Hour, by Registering Anemometer.	Average Pressure of Atmosphere, Reduced to 32° Fahrenheit.)
		Number.	Per Cent of Total.	Average Daily Range by Register- ing Thermometers.	Average of three Daily Observations.	Relative Per Cent of Saturation.	Absolute—Grains of Vapor in a Cu- bic Foot of air. *	Weight, in Troy Ounces, of Vapor In- haled by one Person in 24 hours. *	Weight, in Troy Ounces, of Vapor Ex- haled from Air Passages in 24 hours in excess of vapor inhaled. *	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
Year, 1885.		261	100.00	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
More than the Av. No. of Deaths.	August	59	22.61	^b 18.45	63.23	^d 78	5.29	3.31	8.37	^f 3.07	3.41	8.1	29.165
	July	57	21.84	22.09	71.13	71	6.12	3.83	7.85	2.47	3.00	7.6	^g 29.150
	September	34	13.03	20.42	59.14	75	4.56	2.85	8.83	2.72	3.14	8.8	29.209
	June	23	8.81	22.73	63.39	70	4.90	3.06	8.62	2.61	3.20	8.7	29.195
Average		22	8.33	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
Less than the Average No. of Deaths.	October	16	6.13	16.81	45.78	79	3.17	1.98	9.70	3.03	3.43	8.2	29.161
	December	15	5.75	13.19	27.59	82	1.72	1.08	10.60	2.92	3.50	11.6	29.148
	March	14	5.36	^b 22.22	19.51	77	1.25	.78	10.90	3.31	3.75	10.2	^g 29.197
	February	13	4.98	^b 22.94	10.21	80	0.94	.59	11.09	3.05	3.65	9.0	^g 29.130
	May	9	3.45	^b 19.72	53.32	^d 69	3.62	2.26	9.42	2.96	3.68	9.0	29.105
	April	8	3.06	18.25	41.39	^d 72	2.53	1.58	10.10	3.21	3.96	10.4	^g 29.207
	November	7	2.68	11.53	38.14	82	2.50	1.56	10.12	2.87	3.38	9.9	29.105
	January	6	2.30	17.03	15.46	80	1.14	.71	9.97	2.88	3.49	11.8	^g 29.211

* See foot-notes to Table 87, page 225.

^b Exceptions to the proposition that *more* than the average number of deaths from Diarrhea occurred in months when the Average Daily Range of Temperature was *greater* than the average, and *vice versa*.^c Exceptions to the proposition that *more* than the average number of deaths from Diarrhea occurred in months when the Average Daily Temperature was *higher* than the average, and *vice versa*.^d Exceptions to the proposition that *more* than the average number of deaths from Diarrhea occurred in months when the Relative Humidity of the Atmosphere was *less* than the average, and *vice versa*.^e Exceptions to the proposition that *more* than the average number of deaths from Diarrhea occurred in months when the Absolute Humidity of the Atmosphere was *greater* than the average, and *vice versa*.^f Exceptions to the proposition that *more* than the average number of deaths from Diarrhea occurred in the months when the amount of Ozone in the Atmosphere was *less* than the average, and *vice versa*.^g Exceptions to the proposition that *more* than the average number of deaths from Diarrhea occurred in months when the Average Daily Pressure of the Atmosphere was *greater* than the average, and *vice versa*.

Scarlet Fever.—The number of deaths returned in 1885 from this disease was 245, a decrease of 81 from the mortality reported in 1884, and a decrease of 216 from the annual average of the past thirteen years, 1872-1884. The largest number of deaths ever returned in this State from this malady was in 1883, when the number was 673.

Of the 245 deaths, 136 were among males, and 109 among females. The extent to which scarlet fever prevails among young children may be seen by reference to Table 83, where 158, or 64.49 per cent of all the deaths in 1885 were those of children under five years of age; 219, or 89.39 per cent were under ten years of age.

As regards season of year, as usual the greatest mortality occurred in the cold months, but the month of August shows an unusually high rate of mortality in 1885, being 12.25 per cent of the total number.

In 1885 there were four exceptions to the proposition that the average daily temperature was *lower* than the average in months when *more* than the average number of deaths from scarlet fever occurred, and *vice versa*.

TABLE 92.—Deaths returned in Michigan from Scarlet Fever, by Months, during the Year 1885, and some Coincident Meteorological Conditions.

Months in Order by Number of Deaths from Scarlet Fever, greatest first.	Deaths from Scarlet Fever, 1885.		* Tempera- ture, Degrees Fahrenheit.		Humidity of Atmos- phere, etc., Monthly Averages.				Ozone,— Relative Maximum =10.		Average Velocity of Wind,—Miles Per Hour,—by Registering Anemometer.		Average Pressure of Atmosphere. (Barometer Reduced to 32° Fahrenheit.)
	Number.	Per Cent of Total.	Average Daily Range by Registering Thermometers.	Average of Three Daily Observa- tions.	Relative Per Cent of Saturation.	Absolute—Grains of Vapor in a Cubic Foot of Air.	Weight, in Troy Ounces, of Vapor In- haled by one Person in 24 hours. ^a	Weight, in Troy Ounces, of Vapor Ex- haled from Air Passages in 24 hours in Excess of Vapor Inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—0 P. M. to 7 A. M.			
Year, 1885.	245	100.00	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164	
More than the Av. No. of Deaths.	December...	33	13.47	13.19	27.59	82	1.72	1.08	10.60	2.92	3.50	11.6	29.148
	August.....	30	12.25	18.45	^b 63.23	78	^c 5.29	3.31	8.37	3.07	3.41	8.1	29.165
	January.....	26	10.61	17.03	15.46	80	1.14	.71	9.97	2.58	3.49	11.8	29.211
	February....	21	8.57	22.94	10.21	80	0.94	.59	11.09	3.05	3.65	9.0	29.130
Average.....	20	8.33	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164	
Less than the Av. No. of Deaths.	November...	20	8.16	11.53	^b 38.14	82	^c 2.50	1.56	10.12	2.87	3.38	9.9	29.105
	September...	19	7.76	20.42	59.14	75	4.56	2.85	8.83	2.72	3.14	8.8	29.209
	April.....	18	7.35	18.25	^b 41.39	72	^c 2.53	1.58	10.10	3.21	3.96	10.4	29.207
	July.....	18	7.35	22.09	71.13	71	6.12	3.83	7.85	2.47	3.00	7.6	29.150
	March.....	16	6.53	22.22	^b 19.51	77	^c 1.25	.78	10.90	3.31	3.75	10.2	29.197
	May.....	15	6.12	19.72	53.32	69	3.62	2.26	9.42	2.96	3.68	9.0	29.105
	October.....	15	6.12	16.81	45.78	79	3.17	1.98	9.70	3.03	3.43	8.2	29.161
June.....	14	5.71	22.73	63.39	70	4.90	3.06	8.62	2.61	3.20	8.7	29.195	

^a See foot-notes to Table 87, page 225.

^b Exceptions to the proposition that the Average Daily Temperature was *lower* than the average in months when *more* than the average number of deaths from Scarlet Fever occurred, and *vice versa*.

^c Exceptions to the proposition that the Absolute Humidity of the atmosphere was *less* than the average in months when *more* than the average number of deaths from Scarlet Fever occurred, and *vice versa*.

Consumption.—As is the case in the older States consumption leads all other causes of death in the number of its victims. The deaths reported for 1885 as due to consumption number 1,964, a falling off of 28 from 1883, and 234 from 1884. While this shows a reduction from last year of over one-tenth, there is but little change in the relation of deaths from this disease to deaths from all causes, the per cent being 12.17 in 1884, and 11.80 in 1885. The total deaths reported from consumption under the registration laws, from 1862 to 1885, are 28,086 or an average of 1,652 per year. By sex these deaths aggregate 13,028 males to 15,058 females, or 87 males to every 100 females. For 1885 there were 935 males to 1,028 females, being a ratio of 91 males to every 100 females, or 48 males and 52 females in each 100 decedents, a larger proportion of males than the usual ratio, which is 46 to 54.

The influence of the months and seasons upon the mortality from consumption is shown in the following tabulated exhibits. In 1884, the deaths by half years were quite evenly divided, the excess of the last half over the first being only 1.31 per cent, while it was 4.20 per cent in the grand total. This year there is an excess of 6.26 per cent in the first half of the year. In each case the deaths of the last half are quite evenly divided between the two quarters, but in the first half of the year there is a large excess in the second quarter; this excess amounted to 5.64 per cent in 1884, to 3.57 in 1885, and 5.18 for the seventeen years. By months, April, May and December present the largest proportion in the table for 17 years, while March and April give the greatest proportion of deaths for 1885.

The mortality from consumption by sex and periods of age for 1885, and for the 17 years, 1869-1885, may also be studied in these exhibits. Usually there is little difference in the relative proportions of the various periods of life, between the aggregate record and that for a single year, but in 1885 the deaths under ten fall 2.52 per cent below the record of the 17 years. As usual, however, there is a large excess of deaths in the period of 20 to 30, which is this year 1.27 per cent above the aggregate record.

Mortality from Consumption, by Months and Quarters, 1885.

Months.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	122	161	202	221	177	157	151	150	158	154	147	157	7
Quarters	485			555			459			458			7
Per Cent.	24.69			28.26			23.37			23.32			.36

Total Mortality from Consumption by Sex, Months, and Age, 1869-1885.

	Sex.			Months.												
	Males.	Females.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Males	13,028			756	881	1,183	1,256	1,218	1,028	1,019	1,091	1,149	1,080	1,074	1,247	46
Females		15,058		887	1,051	1,265	1,366	1,381	1,230	1,249	1,287	1,382	1,279	1,214	1,405	62
Totals			28,086	1,643	1,932	2,448	2,622	2,599	2,258	2,268	2,378	2,531	2,359	2,288	2,652	108
Quarters				6,023			7,479			7,177			7,299			108
Per Cent				21.45			26.63			25.55			25.99			.38

	Ages.										
	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.
Males	957	167	193	760	2,960	2,154	1,672	1,507	1,446	852	148
Females	914	188	456	1,754	4,390	2,634	1,617	1,181	967	612	120
Totals	1,871	355	649	2,514	7,350	4,788	3,289	2,688	2,413	1,464	268
Per Cent	6.66	1.26	2.31	8.95	26.17	17.05	11.71	9.57	8.59	5.21	.96

Mortality from Consumption, by Sex and Age, 1885.

Ages.	Total Deaths.	Deaths from Consumption.	Per Cent at Several Ages.	Males.	Females.	Per Cent of Deaths to Population.
Under 10	7,077	106	5.40	59	47	.024
10 to 20	1,088	206	10.49	62	144	.054
20 to 30	1,490	539	27.44	230	309	.153
30 to 40	1,161	342	17.41	164	178	.134
40 to 50	1,039	253	12.88	123	130	.138
50 to 60	1,120	206	10.49	114	92	.165
60 to 70	1,321	174	8.86	107	67	.235
70 to 80	1,332	103	5.24	51	52	.335
80 and over	794	18	.92	14	4	.234
Age not stated	224	17	.87	11	6	1.027
Totals	16,646	1,964	100.00	935	1,029	.106

TABLE 93.—CONSUMPTION.—Deaths from Consumption returned in Michigan, by Months, during the year 1885, and some coincident Meteorological Conditions.

Months in Order by Number of Deaths from Consumption, greatest first.	Deaths from Con- sumption, 1885.		Tempera- ture, Degrees Fahr.		Humidity of Atmos- phere, etc., Monthly Averages.				Ozone,— Relative Maximum = 10.		Average Velocity of Wind,—miles per hour, by Registering Anemometer.	Average Pressure of Atmosphere, (Barometer Reduced to 32° Fahrenheit.)
	Number.	Per Cent of Total.	Average Daily Range by Register- ing Thermometers.	Average of three Daily Observations.	Relative Per Cent of Saturation.	Absolute—Grains of Vapor in a Cu- bic foot of Air. ^a	Weight, in Troy Ounces, of Vapor inhaled by one person in twenty- four hours. ^a	Weight, in Troy Ounces, of Vapor exhaled from air passages in 24 hours in excess of vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
Year, 1885.....	1,957	100.00	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
More than the Average Number of Deaths.	April.....	221	11.29	18.25	72	2.53	1.58	10.10	3.21	3.96	10.4	29.207
	March.....	202	10.32	22.22	77	1.25	.78	10.90	3.31	3.75	10.2	29.197
	May.....	177	9.05	19.72	69	3.62	2.26	9.42	2.96	3.68	9.0	29.105
Average.....	164	8.33	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
Less than the Average Number of Deaths.	February.....	161	8.23	22.94	80	0.94	.59	11.09	3.05	3.65	9.0	29.130
	September.....	158	8.07	20.42	75	4.56	2.85	8.83	2.72	3.14	8.8	29.209
	June.....	157	8.02	22.73	70	4.90	3.06	8.62	2.61	3.20	8.7	29.195
	December.....	157	8.02	13.19	82	1.72	1.08	10.60	2.92	3.50	11.6	29.148
	October.....	154	7.87	16.81	79	3.17	1.98	9.70	3.03	3.43	8.2	29.161
	July.....	151	7.72	22.09	71	6.12	3.83	7.85	2.47	3.00	7.6	29.150
	August.....	150	7.67	18.45	78	5.29	3.31	8.37	3.07	3.41	8.1	29.165
	November.....	147	7.51	11.53	82	2.50	1.56	10.12	2.87	3.38	9.9	29.105
	January.....	122	6.23	17.03	80	1.14	.71	9.97	2.88	3.49	11.8	29.211

^a See foot-notes to Table 87, page 225.

^b Excluding 7 deaths in unknown months.

^c Exceptions to the proposition that the Average Daily Temperature was *higher* than the average in months when *more* than the average number of deaths from Consumption occurred, and *vice versa*.

^d Exceptions to the proposition that *more* than the average amount of vapor was inhaled in months in which there was *more* than the average number of deaths from Consumption, and *vice versa*.

Pneumonia.—As in consumption, there was a falling off in the number of deaths from pneumonia in 1885 from the number reported in 1884, the totals being 733 against 767. By per cent to total deaths from all causes the proportion is 4.12 in 1885 to 4.25 in 1884. The number of deaths for 1885 is still 49 above the average for the ten years, 1876-1885, which is 684.

Contrary to consumption, this disease shows more deaths among males than females, the figures this year being 420 to 312 and 1 unknown, or an excess of 108 male decedents, being a proportion of 135 males to 100 females; that is, out of every 100 deaths there were 57 males to 43 females.

For the years 1875-6 and 1884-5 the months of February and March were the most fatal, but in the remaining eight of the past twelve years March and April show the largest proportion of deaths. July and August show the least number for 1885 and for the average for ten years.

The deaths under 5 years of age bear a smaller proportion to the total than in 1884, being 41.47 per cent to 43.94. The deaths over 50 represent 27.69 per cent, and the ages between 5 and 50 are represented by 30.15 per cent. This shows a larger proportion of deaths at the extremes of life, and when we come to examine the proportion of deaths at these ages to population of the same age the ratio is shown to be still greater. The per cent of deaths from pneumonia to population of the same age is as follows: .135 per cent for all under 5 years of age; for those aged 5 to 50 the rate is only .016 per cent, while for those aged 50 and over it is .086 per cent. From this it appears that for those aged over 50 the rate is over five times that of from 5 to 50, while for children under 5 it is over eight times as great.

Table 95 shows the relation of deaths from pneumonia to certain atmospheric conditions. It appears that in 1885 there were only two exceptions to the proposition that the Average Daily Temperature was *lower* than the average in months when *more* than the average number of deaths from pneumonia occurred, and *vice versa*.

TABLE 94.—By Months, the Number of Deaths returned from Pneumonia in Michigan during each of the Years, 1876-1885, and the Average for Ten Years ending with 1885.

Years.	Total.	Deaths from Pneumonia, 1876-1885.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
1876.....	627	43	71	107	68	50	33	20	37	28	38	40	91	1
1877.....	465	58	56	64	60	39	24	14	23	26	26	35	38	2
1878.....	462	36	37	59	54	37	30	15	19	22	35	53	65	...
1879.....	701	44	92	114	102	59	36	30	31	42	25	45	80	1
1880.....	812	56	82	111	113	79	37	29	36	51	44	68	105	1
1881.....	805	77	88	126	100	70	37	39	29	47	55	43	91	3
1882.....	735	59	65	84	82	94	58	29	29	36	43	57	97	2
1883.....	737	76	61	97	104	89	40	30	42	27	41	53	76	1
1884.....	767	68	101	106	83	67	39	34	42	34	30	70	90	3
1885.....	733	65	100	122	86	66	34	26	26	41	45	43	78	1
Average for 10 years.....	684	58	75	99	85	65	37	27	31	35	38	51	81	2

TABLE 95.—Deaths returned from Pneumonia in Michigan during the Year 1885, and some coincident Meteorological Conditions.

Months in Order by Number of Deaths from Pneumonia, greatest first.		Deaths from Pneumonia, 1885.		Tempera- ture, De- grees Fahr.		Humidity of Atmos- phere, etc., Monthly Averages.				Ozone,— Relative Maximum = 10.		Average Velocity of Wind,—Miles per hour,— by Registering Anemometer.	Average Pressure of Atmosphere, Reduced to 32° Fahrenheit.)
		Number.	Per Cent of Total.	Average Daily Range by Registering Thermometers.	Average of Three Daily Observations.	Relative Per Cent of Saturation.	Absolute—Grains of Vapor in a Cubic Foot of Air. ^a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled. ^a	Day,—7 A. M. to 2 P. M.	Night,—9 P. M. to 7 A. M.		
Year, 1885.....		733	100.00	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
More than the Average Number of Deaths.	March.....	122	16.64	22.22	19.51	77	1.25	.78	10.90	3.31	3.75	10.2	29.197
	February.....	100	13.64	22.94	10.21	80	0.94	.59	11.09	3.05	3.65	9.0	29.130
	April.....	86	11.73	18.25	41.39	72	2.53	1.58	10.10	3.21	3.96	10.4	29.207
	December.....	78	10.64	13.19	27.59	82	1.72	1.08	10.60	2.92	3.50	11.6	29.148
	May.....	66	9.01	19.72	53.32	69	3.62	2.26	9.42	2.96	3.68	9.0	29.105
	January.....	65	8.87	17.03	15.46	80	1.14	.71	9.97	2.88	3.49	11.8	29.211
Average.....		61	8.33	18.78	42.36	76	3.14	1.96	9.72	2.92	3.47	9.4	29.164
Less than the Average Number of Deaths.	October.....	45	6.14	16.81	45.78	79	3.17	1.98	9.70	3.03	3.43	8.2	29.161
	November.....	43	5.87	11.53	38.14	82	2.50	1.56	10.12	2.87	3.38	9.9	29.105
	September.....	41	5.59	20.42	59.14	75	4.56	2.85	8.83	2.72	3.14	8.8	29.209
	June.....	34	4.64	22.73	63.39	70	4.90	3.06	8.62	2.61	3.20	8.7	29.195
	July.....	27	3.68	22.09	71.13	71	6.12	3.83	7.85	2.47	3.00	7.6	29.150
	August.....	26	3.55	18.45	63.23	78	5.29	3.31	8.37	3.07	3.41	8.1	29.165

^a See foot-notes to Table 87, page 225.^b Exceptions to the proposition that the Average Daily Temperature was lower than the average in months when more than an average number of deaths from Pneumonia occurred, and *vice versa*.^c Exceptions to the proposition that less than the average amount of vapor was inhaled in months when more than an average number of deaths from Pneumonia occurred, and *vice versa*.

From table 96 may be seen the relative prevalence, in 1885, of consumption, pneumonia, typhoid fever, scarlet fever, and diarrhea in each of the eleven geographical divisions of the State. Consumption seems to have prevailed the least in the North-eastern and Upper Peninsular divisions of the State, and those divisions showing the highest rate per cent were the Northern, Central and Southwestern, while pneumonia had a high rate per cent in the Northern, Eastern and Southern Central divisions.

TABLE 96.—*Exhibiting, for the State and Eleven Geographical Divisions in 1885, the Number and Per Cent of Deaths returned from all Causes, from Consumption, Pneumonia, Typhoid Fever, Scarlet Fever and Diarrhea.*

State and Geographical Divisions.	Deaths from All Causes, 1885.	Consumption.		Pneumonia.		Typhoid Fever.		Scarlet Fever.		Diarrhea.	
		Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
State.....	16,646	1,964	11.79	733	4.40	387	2.32	245	1.47	261	1.57
Upper Peninsular.....	1,027	87	8.47	31	3.02	23	2.24	19	1.85	5	.49
Northwestern.....	475	46	9.68	21	4.42	9	1.89	3	.63	15	3.16
Northern.....	348	50	14.37	20	5.75	3	.86	6	1.72	11	3.16
Northeastern.....	329	26	7.90	13	3.95	5	1.52	10	3.04	6	1.82
Western.....	1,751	201	11.48	80	4.57	57	3.26	19	1.09	30	1.71
Northern Central.....	414	57	13.77	9	2.17	12	2.90	1	.24	4	.97
Eastern.....	2,536	284	11.20	129	5.09	56	2.21	42	1.66	56	2.21
Central.....	2,053	300	14.61	79	3.85	64	3.12	10	.49	9	.44
Southwestern.....	1,011	145	14.34	49	4.85	28	2.77	9	.89	7	.69
Southern Central.....	2,290	288	12.58	123	5.37	52	2.27	15	.66	9	.39
Southeastern.....	4,412	480	10.88	179	4.06	78	1.77	111	2.52	109	2.47

As seen from Table 97, deaths from old age and those aged 70 and over occurred in the largest proportion in the older and longer settled portions of the State, while deaths from those aged under 5 had the greatest ratio in the newer portions of the State. Thus, the highest rate per cent of deaths from old age was in the Southern Central division, and the lowest in the Upper Peninsular and Northeastern divisions. Deaths of those aged under 5 had the highest rate per cent in the Upper Peninsular and the lowest in the Southern Central.

TABLE 97.—*Exhibiting, for the State and Eleven Geographical Divisions, the Number and Per Cent of Deaths returned at all Ages, from Old Age, of all Aged 70 and Over, and of all Aged Under 5, during the Year 1885.*

State and Geographical Divisions.	Deaths at all Ages, 1885.	Old Age.		Aged 70 and Over.		Aged Under 5.	
		Number of Deaths.	Per Cent to Deaths at all Ages by Geographical Divisions.	Number of Deaths.	Per Cent to Deaths at all Ages by Geographical Divisions.	Number of Deaths.	Per Cent to Deaths at all Ages by Geographical Divisions.
State.....	16,646	773	4.64	2,126	12.77	6,260	37.61
Upper Peninsular.....	1,027	14	1.36	27	2.63	553	53.85
Northwestern.....	475	20	4.21	45	9.47	230	48.42
Northern.....	348	10	2.87	26	7.47	164	47.13
Northeastern.....	329	5	1.52	14	4.26	163	49.54
Western.....	1,751	61	3.48	185	10.57	675	38.55
Northern Central.....	414	13	3.14	32	7.73	156	37.68
Eastern.....	2,536	128	5.05	261	10.29	1,091	43.02
Central.....	2,053	115	5.60	359	17.49	533	25.96
Southwestern.....	1,011	56	5.54	190	18.79	276	27.30
Southern Central.....	2,290	178	7.77	548	23.93	533	23.23
Southeastern.....	4,412	173	3.92	439	9.95	1,886	42.75

Table 98 shows the average age at death of decedents in Michigan for the years 1883, 1884, 1885, and the average for ten years, 1875-1884. It may be seen that the average age of males for the year 1885 was about 29 years, and the average age of females a year younger, while in the average for ten years, the age of the males was 26 years and the age of the females 25 years. Decedents from consumption show an average age of 38 years for males and 33 years for females. All who died aged 20 years and over, for the ten year average, show an average age of 53 years for males and 50 years for females.

TABLE 98.—*Showing the Average Age of Decedents in Michigan during the Years 1883, 1884, 1885, and the Average for Ten Years, 1875-1884.*

	Year Ending	Average Age in Years and 100ths of a Year.			
		Total.	Males.	Females.	Excess of Males.
Deaths as shown by Registration Returns.....	Dec. 31, 1883....	26.81	27.55	26.37	1.18
Deaths of Native-born Inhabitants, as shown by Registration Returns.....		20.88	21.13	20.81	.32
Deaths of Foreign-born Inhabitants, as shown by Registration Returns.....		47.90	47.61	48.03	1.58
Deaths from Consumption, by Registration Returns.....		35.71	38.16	33.69	4.47
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....		52.24	55.41	49.01	6.40
All who died aged 20 years and over, as shown by Registration Returns.....		51.97	54.06	50.13	3.93
Deaths of Native-born Inhabitants aged 20 years and over, as shown by Registration Returns.....		51.11	54.04	48.11	5.93
Deaths of Foreign-born Inhabitants aged 20 years and over, as shown by Registration Returns.....		53.87	52.81	52.62	.19
Deaths as shown by Registration Returns.....	Dec. 31, 1884....	26.45	26.92	26.47	.45
Deaths of Native-born Inhabitants, as shown by Registration Returns.....		20.56	20.44	20.88	-.44
Deaths of Foreign-born Inhabitants, as shown by Registration Returns.....		48.84	48.65	48.20	.45
Deaths from Consumption, by Registration Returns.....		34.53	36.73	32.95	3.78
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....		54.14	56.75	51.27	5.48
All who died aged 20 years and over, as shown by Registration Returns.....		52.51	53.90	51.59	2.31
Deaths of Native-born Inhabitants aged 20 years and over, as shown by Registration Returns.....		51.84	53.89	49.69	4.20
Deaths of Foreign-born Inhabitants aged 20 years and over, as shown by Registration Returns.....		53.92	53.21	53.82	-.61
Deaths as shown by Registration Returns.....	Dec. 31, 1885....	28.53	28.97	28.08	.89
Deaths of Native-born Inhabitants, as shown by Registration Returns.....		21.95	21.96	22.07	-.11
Deaths of Foreign-born Inhabitants, as shown by Registration Returns.....		49.90	51.41	48.37	3.04
Deaths from Consumption, by Registration Returns.....		36.97	39.13	35.02	4.11
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....		52.07	54.46	49.08	5.43
All who died aged 20 years and over, as shown by Registration Returns.....		53.30	55.00	51.20	3.80
Deaths of Native-born Inhabitants aged 20 years and over, as shown by Registration Returns.....		51.22	54.86	50.07	4.79
Deaths of Foreign-born Inhabitants aged 20 years and over, as shown by Registration Returns.....		53.75	55.19	52.32	2.87
Deaths as shown by Registration Returns.....	Average for 10 years, 1875-1884.....	25.77	26.44	25.26	1.18
Deaths of Native-born Inhabitants, as shown by Registration Returns.....		20.23	20.38	20.33	.05
Deaths of Foreign-born Inhabitants, as shown by Registration Returns.....		47.92	48.69	46.50	2.19
Deaths from Consumption, by Registration Returns.....		35.82	38.72	33.48	5.24
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.....		52.21	54.26	49.96	4.40
All who died aged 20 years and over, as shown by Registration Returns.....		51.99	53.79	50.11	3.68
Deaths of Native-born Inhabitants aged 20 years and over, as shown by Registration Returns.....		51.16	53.87	48.75	5.12
Deaths of Foreign-born Inhabitants aged 20 years and over, as shown by Registration Returns.....		53.22	53.57	52.24	1.33

LONGEVITY OF DECEDENTS.

In Table 99 are given the results of the work of sixteen years in the compilation of statistics regarding the average age at death of persons engaged in various occupations or pursuits. The longer the time covered by such statistics the more valuable they become for purposes of reference. No definite conclusion can be drawn from the age attained by any single individual, but when a sufficient number engaged in any one occupation can be taken collectively, they form a good basis for an average estimate of longevity, or expectation of life. It is upon such tables, if gathered by reliable authority, that life insurance companies base their rates and business.

In this table it will be seen that there are twelve general classes, and that the highest average age by class is 58.75 years, and the lowest 42.20. This shows a difference of over sixteen years between the longevity of cultivators of the earth and seafaring men, and the latter are closely followed in shortness of life by those who come under the head of laborers.

In order to see at a glance the more important facts to be gleaned from the table we have selected a few of the subdivisions of the classes showing the greatest longevity, taking such examples only as have cases enough to form some reasonable basis for estimates. In each instance is given the number of deaths from which the average age is taken, the subdivision of class, and the average age :

No.	Males.	Av. Age.	No.	Females.	Av. Age.
6	Pensioners.....	78.33	10	Widows.....	73.50
9	Weavers.....	76.39	98	Weavers.....	67.31
37	Retired farmers.....	73.12	59	Nurses.....	60.26
60	Retired.....	71.68	19	Boarding-house keepers.....	59.34
52	Spinners.....	71.44	24	Physicians.....	57.88
15	Basket-makers.....	69.23	3,741	Unemployed.....	57.55
34	Justices of the peace.....	67.06	10	Spinsters.....	57.30

The following exhibit gives those occupations which appear to have a tendency to shorten life, taking again those cases only which have a sufficient number for intelligible comparison.

No.	Males.	Av. Age.	No.	Females.	Av. Age.
97	Brakemen.....	27.38	26	Students.....	21.85
13	Rivermen.....	28.73	6	Telegraphers.....	25.00
9	Sawyers.....	29.72	18	Prostitutes.....	25.72
17	Finishers.....	32.09	180	At Home.....	28.00
8	Gilders.....	32.50	36	Clerks.....	28.14
48	Railroad Firemen.....	32.92	429	Teachers.....	29.52
49	Woodsmen.....	33.01			
513	Clerks.....	33.82			
112	Painters.....	34.09			
24	Loggers.....	34.17			
47	Telegraphers.....	34.58			
105	Cigar-makers.....	36.80			
116	Molders.....	38.14			

TABLE 99.—*Exhibiting, by Classified Occupations, the Number, Aggregate and Average Age of Decedents in Michigan, aged 20 Years and over, for the 16 Years, 1870-1885. One-half Year added to age of each for Months and Days excluded.*

Class.	Occupations,—16 Years, 1870-1885.	Number of Persons.	Age in Years and Hundredths of a Year.	
			Aggregate.	Average.
	All Aged 20 Years and Over.....	92,271	4,782,538.50	51.83
	All Specified Occupations,—Aged 20 Years and Over.....	87,381	4,479,171.50	51.26
	Occupations Unspecified,—Aged 20 Years and Over.....	5,890	303,367.00	51.51
I.	Cultivators of the Earth.....	24,689	1,450,558.50	58.75
II.	Active Mechanics Abroad.....	2,602	126,737.00	52.55
III.	Active Mechanics in Shops.....	3,306	168,323.00	50.91
IV.	Inactive Mechanics in Shops.....	1,636	84,931.00	51.91
V.	Laborers,—No Special Trades.....	8,181	361,587.50	44.20
VI.	Agents,—Laborers Abroad, Etc.....	1,709	74,048.50	43.38
VII.	Seafaring Men.....	643	27,132.50	42.20
VIII.	Soldiers.....	37	1,918.50	51.85
IX.	Business Men.....	3,914	184,518.00	47.14
X.	Professional Men.....	1,462	76,736.00	52.49
XI.	Unemployed.....	4,104	225,249.00	54.89
XII.	Females.....	39,888	1,990,799.00	49.78
I.	Cultivators of the Earth.....	24,689	1,450,558.50	58.75
	Farmers.....	24,345	1,431,754.50	58.81
	Farm Laborers.....	107	3,879.50	36.26
	Fruit Growers.....	12	640.00	53.33
	Gardeners.....	177	11,026.50	62.30
	Nursery Men.....	11	552.50	50.23
	Retired Farmers.....	37	2,705.50	73.12
II.	Active Mechanics Abroad.....	2,602	126,737.00	52.55
	Brick-makers.....	26	1,464.00	56.31
	Carpenters and Builders.....	1,885	96,316.50	52.16
	House-movers.....	6	345.00	57.50
	Masons.....	494	25,975.00	52.58
	Millwrights.....	78	4,937.00	63.29
	Ship Carpenters.....	49	2,564.50	52.34
	Stone Cutters.....	64	3,135.00	48.98

VITAL STATISTICS OF MICHIGAN, 1885.

TABLE 99.—CONTINUED.—*Occupations of Decedents, Etc.*

Class.	Occupations,—16 Years, 1870-1885.	Number of Persons.	Age in Years and Hundredths of a Year.	
			Aggregate.	Average.
III.	Active Mechanics in Shops.....	3,308	168,323.00	50.91
	Bakers.....	89	4,551.50	51.14
	Blacksmiths.....	623	34,278.50	55.02
	Boiler-makers.....	30	1,259.00	41.97
	Book-binders.....	9	414.50	46.06
	Bottlers.....	3	84.50	28.17
	Brewers.....	82	3,793.00	46.26
	Broom-makers.....	9	446.50	49.61
	Cabinet-makers.....	143	7,622.50	53.30
	Carriage-makers.....	139	7,985.50	57.45
	Carriage Trimmers.....	6	292.00	48.67
	Chair-makers.....	2	100.00	50.00
	Confectioners.....	15	698.50	46.57
	Cooks.....	42	1,943.00	46.26
	Coopers.....	326	18,616.00	57.10
	Coppersmiths.....	8	488.00	61.00
	Dyers.....	13	658.50	50.65
	Finishers.....	17	545.50	32.09
	Foundrymen.....	12	599.00	49.92
	Gilders.....	8	260.00	32.50
	Glass-blowers.....	2	82.00	41.00
	Gunsmiths.....	45	2,599.50	57.77
	Machinists.....	197	9,921.50	50.36
	Marble-workers.....	18	723.00	40.17
	Mechanics.....	411	19,776.50	48.12
	Millers.....	232	12,843.00	55.36
	Model-makers.....	14	758.00	54.14
	Molders.....	116	4,424.00	38.14
	Painters.....	351	14,761.50	42.06
	Plasterers.....	15	754.50	50.30
	Plumbers.....	25	1,043.50	41.74
	Potters.....	5	341.50	68.30
	Rope-makers.....	5	291.50	58.30
	Sail-makers.....	4	195.00	48.75
	Saw-makers.....	4	199.00	49.75
	Sawyers.....	9	287.50	29.72
	Smelters.....	1	53.50	53.50

TABLE 99.—CONTINUED.—*Occupations of Decedents, Etc.*

Class.	Occupations,—16 Years, 1870-1885.	Number of Persons.	Age in Years and Hundredths of a Year.	
			Aggregate.	Average.
III.	Active Mechanics in Shops—(Continued).			
	Spinners	52	3,715.00	71.44
	Stove-mounters	11	456.50	41.50
	Tanners	31	1,719.50	55.47
	Tinners	73	3,109.50	42.60
	Turners	29	1,377.50	47.50
	Upholsterers	19	648.50	34.13
	Wagon-makers	44	2,559.00	58.16
	Weavers	9	687.50	76.39
	Wood Carvers	8	379.00	47.37
IV.	Inactive Mechanics in Shops	1,636	84,931.00	51.91
	Barbers	127	5,160.50	40.63
	Basket-makers	15	1,088.50	69.23
	Cigar-makers	105	3,864.50	36.80
	Harness-makers	141	6,589.50	46.73
	Jewelers	92	4,470.00	48.59
	Lithographers	4	96.00	24.00
	Printers	112	3,818.00	34.09
	Shoemakers	645	38,703.50	60.01
	Silversmiths	4	151.00	37.75
	Tailors	344	19,414.00	56.44
	Telegraphers	47	1,625.50	34.58
V.	Laborers,—No Special Trades	8,181	361,587.50	44.20
	Choppers	8	285.00	35.63
	Ditchers	8	497.00	62.13
	Janitors	23	1,352.50	58.80
	Laborers	6,895	310,479.50	45.03
	Loggers	24	820.00	34.17
	Mill hands	166	6,677.00	40.23
	Miners	813	31,535.50	38.79
	Miscellaneous	121	5,542.50	45.81
	Porters	16	584.00	36.50
	Rivermen	13	373.50	28.73
	Salt Packers	4	222.00	55.50

TABLE 99.—CONTINUED.—*Occupations of Decedents, Etc.*

Class.	Occupations,—16 Years, 1870-1885.	Number of Persons.	Age in Years and Hundredths of a Year.	
			Aggregate.	Average.
V.	Laborers, No Special Trades—(Continued).			
	Servants	28	1,087.00	38.82
	Well-diggers	13	514.50	39.58
	Woodsmen	49	1,617.50	33.01
VI.	Agents, Laborers Abroad, Etc.....	1,709	74,048.50	43.33
	Agents	95	4,403.50	46.35
	Baggagemen	20	783.00	39.15
	Brakemen	97	2,655.50	27.38
	Butchers	213	9,633.50	45.23
	Collectors	8	373.00	46.63
	Commercial Travelers	30	1,245.00	41.50
	Conductors	53	1,973.50	37.24
	Constables	11	526.50	47.86
	Draymen	75	3,947.50	52.63
	Drovers	39	1,877.50	48.14
	Hackmen	38	1,809.00	47.61
	Hostlers	12	532.00	44.33
	Hunters and Trappers	33	1,623.50	49.20
	Indian Chief	1	104.50	104.50
	Inspectors of oil, gas, salt, etc	5	239.50	47.90
	Jockeys	3	103.50	34.50
	Mail Carriers	3	161.50	53.83
	Milk Peddlers	11	616.50	56.05
	Overseers and Superintendents	30	1,349.00	44.97
	Peddlers	125	6,325.50	50.60
	Policemen	27	1,120.50	41.50
	Railroad Engineers	317	12,971.50	40.92
	Railroad Expressmen	12	544.00	45.33
	Railroad Firemen	48	1,580.00	32.92
	Railroad Laborers	148	5,563.00	37.59
	Railroad Men	41	1,822.50	44.45
	Sextons	7	387.50	55.36
	Switchmen	15	485.50	32.37
	Teamsters	167	7,862.50	47.08
	Toll-gate Keepers	4	240.00	60.00
	Watchmen	15	767.50	51.17
	Whitewashers	6	421.00	70.17

TABLE 99.—CONTINUED.—*Occupations of Decedents, Etc.*

Class.	Occupations,—15 Years, 1870-1885.	Number of Persons.	Age in Years and Hundredths of a Year.	
			Aggregate.	Average.
VII.	Seafaring Men	643	27,132.50	42.20
	Fishermen	125	5,759.50	46.08
	Officers	43	2,148.50	49.96
	Sailors	470	18,934.00	40.29
	United States Navy	5	290.50	58.10
VIII.	Soldiers	37	1,918.50	51.85
	Officers	5	276.50	55.30
	Soldiers	32	1,642.00	51.31
IX.	Business Men	3,914	184,518.00	47.14
	Auctioneers	5	265.50	53.10
	Bankers	88	5,184.00	58.91
	Book-keepers	203	8,371.50	41.24
	Capitalists	59	3,625.50	61.45
	Clerks	513	17,349.50	33.82
	Commission Merchants	18	968.00	53.78
	Contractors and Jobbers	61	3,450.50	56.57
	Druggists	110	4,804.00	43.67
	Express Men	4	194.00	48.50
	Furniture Dealers	6	261.00	43.50
	Grain Buyers	19	968.50	50.97
	Grocers	180	8,525.00	47.36
	Hatters	15	812.50	54.17
	Hotel Clerks	6	226.00	37.67
	Hotel-keepers	262	13,627.00	52.01
	Insurance Agents	60	3,091.00	51.52
	Justices of the Peace	34	2,280.00	67.06
	Liquor Dealers	16	690.00	43.13
	Liverymen	51	2,223.50	43.60
	Lumbermen	414	19,198.00	46.37
	Manufacturers	164	8,456.00	51.56
	Merchants	976	49,115.00	50.32
	Mill Owners	4	164.00	41.00
	News Agents	10	379.00	37.90
	Public Officers	121	6,331.50	52.33
	Real Estate Dealers	51	3,024.50	59.30
	Restaurant-keepers	20	936.00	46.80

TABLE 99.—CONTINUED.—*Occupations of Decedents, Etc.*

Class.	Occupations,—15 Years, 1870-1885.	Number of Persons.	Age in Years and Hundredths of a Year.	
			Aggregate.	Average.
	Business Men—(Continued).			
IX.	Salesmen	59	2,639.50	44.74
	Saloon-keepers	350	15,363.00	43.89
	Undertakers	15	791.50	52.77
	All Others	20	1,203.00	60.15
X.	Professional Men	1,462	76,736.00	52.49
	Actors	7	300.50	42.93
	Architects	10	467.00	46.70
	Artists	29	1,220.50	42.09
	Attorneys at Law	223	12,043.00	53.29
	Civil Engineers	37	2,131.50	57.61
	Clergymen	277	17,846.50	64.43
	Dentists	43	1,882.50	43.78
	Draughtsmen	1	59.50	59.50
	Editors	31	1,411.50	45.53
	Electricians	2	66.00	33.00
	Judges	4	222.00	55.50
	Lecturers	2	100.00	50.00
	Musicians	39	1,670.50	42.83
	Opticians	2	75.00	37.50
	Photographers	14	541.00	38.64
	Physicians and Surgeons	448	25,559.00	57.05
	Students	71	1,641.50	23.12
	Surveyors	5	273.50	54.70
	Teachers	194	8,058.00	41.54
	Veterinary Surgeons	20	1,167.00	58.35
XI.	Unemployed	4,104	225,249.00	54.89
	Paupers	134	7,941.00	59.23
	Pensioners	6	470.00	78.33
	Retired	60	4,301.00	71.68
	Unemployed	1,385	82,555.50	59.61
	Unknown	2,504	129,394.00	51.67
	All Others	15	587.50	39.17
XII.	Females	39,988	1,990,799.00	49.78
	Actresses	8	81.50	27.17
	Agents	7	243.50	34.79

CAUSES OF DEATH,—OCCUPATIONS.

247

TABLE 99.—CONTINUED.—*Occupations of Decedents, Etc.*

Class.	Occupations,—15 Years, 1870-1885.	Number of Persons.	Age in Years and Hundredths of a Year.	
			Aggregate.	Average.
	Females—(Continued).			
XII.	Artists	13	514.50	39.58
	At Home	180	5,040.00	28.00
	Basket-makers	11	577.50	52.50
	Boarding-house keepers	19	1,127.50	59.34
	Book-keepers	3	153.50	51.17
	Cigar-makers	4	114.00	28.50
	Clerks	36	1,013.00	28.14
	Confectioners	6	259.00	43.17
	Domestics	794	31,182.00	39.27
	Dress-makers	253	8,477.50	33.51
	Druggists	3	154.50	51.50
	Factory Employés	4	88.00	22.00
	Farmers	2,159	117,805.50	54.56
	Hair-dressers	16	542.00	33.88
	Hotel-keepers	41	1,909.50	46.57
	House-keepers	9,471	505,924.50	53.42
	Housewives	17,129	806,476.50	47.08
	House-workers	952	43,388.00	45.58
	Laborers	211	10,470.50	49.62
	Manufacturers	8	400.00	50.00
	Matrons	79	4,084.50	51.70
	Merchants	39	1,897.50	48.65
	Millers	8	424.00	53.00
	Milliners	141	5,190.50	36.81
	Ministers	3	135.50	45.17
	Miscellaneous	130	5,994.00	46.11
	Missionaries	1	69.50	69.50
	Musicians	20	686.00	34.30
	Nuns	1	24.50	24.50
	Nurses	59	3,555.50	60.26
	Paupers	54	3,002.00	55.59
	Physicians	24	1,389.00	57.88
	Prostitutes	18	463.00	25.72
	Saloon-keepers	9	402.50	44.72
	Seamstresses	202	8,146.00	40.33
	Spinsters	10	573.00	57.30

TABLE 99.—CONTINUED.—*Occupations of Decedents, Etc.*

Class.	Occupations.—15 Years, 1870-1885.	Number of Persons.	Age in Years and Hundredths of a Year.	
			Aggregate.	Average.
XII.	Females—(Continued).			
	Students.....	26	568.00	21.85
	Tailloresses.....	116	6,281.00	54.15
	Teachers.....	429	12,665.50	29.52
	Telegraphers.....	6	150.00	25.00
	Unemployed.....	3,741	215,293.50	57.55
	Unknown.....	3,386	173,973.00	51.38
	Washer-women.....	55	2,558.50	46.52
	Weavers.....	98	6,596.00	67.31
	Widows.....	10	735.00	73.50



LANE MEDICAL LIBRARY

To avoid fine, this book should be returned
on or before the date last stamped below.

--	--	--



